HOLDEN

# OWNER'S HANDBOOK

M L SERIES

Owner's Name .....

Address .....

Town .....

State ..... Postcode .....

Model Name .....

Reg. No. ..... Eng. No. .....

Vehicle Identification No. (V.I.N.) .....

Date of Purchase ..... Odometer Reading .....

# Vehicle Identification Certificate

Selling Dealer's Stamp & Signature .....

## CHANGE OF ADDRESS/OWNERSHIP

Holden's Motor Company requests that owners who change their address (or name) or subsequent owners who purchase this vehicle, complete and return by mail one of the forms on pages 111 and 113.

This notification is important even after the expiration of the original vehicle warranty in order that Holden's Motor Company will be able to contact you should the need arise.

Part No. 92033777
June 1987 (ML Print 3)

We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

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— WARRANTY Page 50
— familiarise yourself with the conditions

— CHANGING A WHEEL Page 42

— OTHER EMERGENCIES Page 37

— FUEL Page 135
— Unleaded Petrol

— LIST OF DEALERS ACROSS AUSTRALIA Page 56

— CUSTOMER ASSISTANCE Page 55



All information, illustrations and specifications in this handbook are based on the latest product information available at the time of printing. Holden's Motor Company reserves the right to make changes at any time without notice and without incurring any obligation.

# Contents

The first page of each chapter
contains a "chapter index".

Chapter 1 . . . . . **INSTRUMENTS & CONTROLS** . . . . . page 5
The first page of this chapter illustrates the instrument panel and identifies the gauges, warning lights and controls. Page reference numbers are listed next to each item.

Chapter 2 . . . . . **BEFORE DRIVING** . . . . . page 19
This section covers the other features of your car, not appearing on the instrument panel. Features covered include locks, seat adjustment, seat belts, horn, parking brake, mirrors, windows, antenna and the interior light.

Chapter 3 . . . . . **STARTING & DRIVING** . . . . . page 29
Please read chapter 1 and 2 to familiarise yourself with your car, before proceeding to this section. This explains the steering lock, how to start your car and when to change gears. There are also some precautions and fuel consumption notes.

Chapter 4 . . . . . **ACCIDENTS & EMERGENCIES** . . . . . page 37
— PART A shows what to do at the scene of an accident, including giving medical assistance.
— PART B has some emergency procedures, including wheel changing, starting when the battery is flat and engine overheating.

Chapter 5 ..... **WARRANTY** ..... page 49
This sets out the terms of your warranty, explains what to do if you need Customer Assistance and lists the GM-H dealers across Australia.

Chapter 6 ..... **BASIC MAINTENANCE** ..... page 64
As well as taking your car in for a service, there are a few simple checks that the owner must make. These are clearly shown and illustrated. They include checking the oil, water, brake and automatic transaxle fluid levels. It also shows how to top up the washer fluid and check your tyres.

The end of the chapter shows how to replace your car's bulbs should the need arise.

Chapter 7 ..... **SERVICES** ..... page 79
This shows when your car requires servicing and what is done at each service. Also included are the coupons that are used when you take your car to a GM-H Dealer to be serviced.

Chapter 8 ..... **SPECIFICATIONS AND EMISSIONS** ..... page 115
This lists specifications, capacities and general replacement parts, including oil, bulbs, tyres, fuses, etc. Also included is information relating to the emission control features fitted to your vehicle.

Chapter 9 ..... **APPEARANCE CARE** ..... page 125
Listed are the cleaning agents (and their applications) that you should use to look after the exterior and interior of your car.

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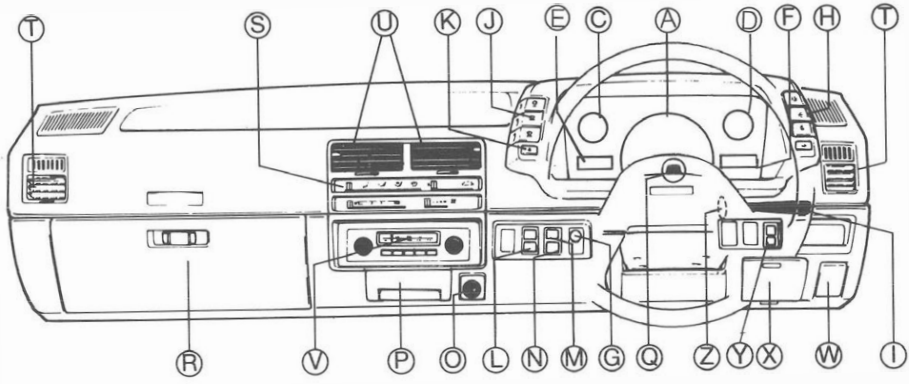
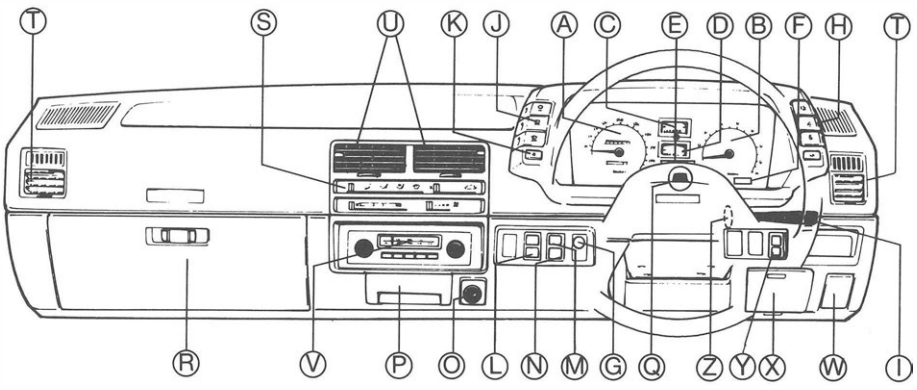


CHAPTER 1

# Instruments and Controls

***DESIGN 1***





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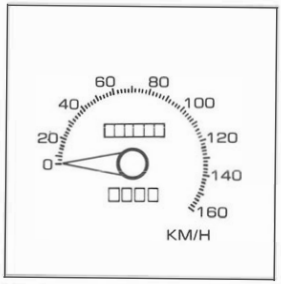
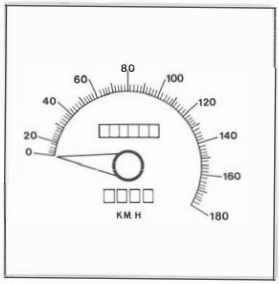
# Gauges

## A SPEEDOMETER

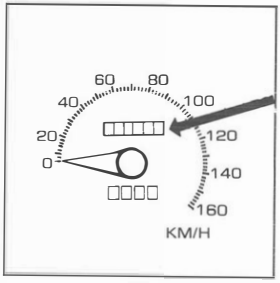
The speedometer indicates vehicle speed in kilometres per hour.

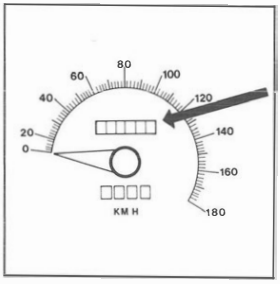



## ODOMETER

The odometer is incorporated into the speedometer face and records accumulated distance travelled (in kilometres) since the car was built.

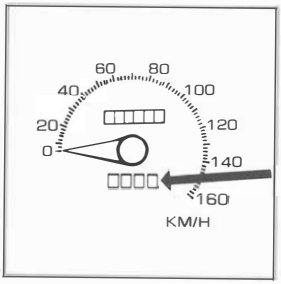


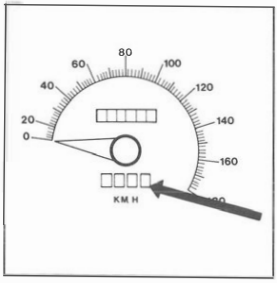




## TRIPMETER

A tripmeter (which is also set into the speedometer face) is used to record the distance travelled on a particular trip.

The tripmeter is set to zero by the push button.

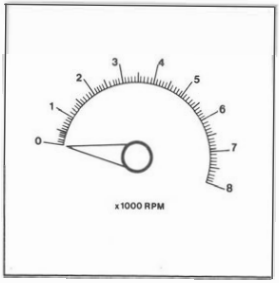



## B TACHOMETER (if fitted)

The tachometer records engine speed in revolutions per minute (r.p.m.) and shows 0 to 8,000 r.p.m.

Continued or sustained operation in the RED zone could cause serious enginge damage.

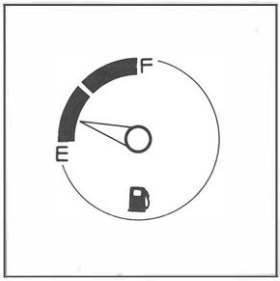


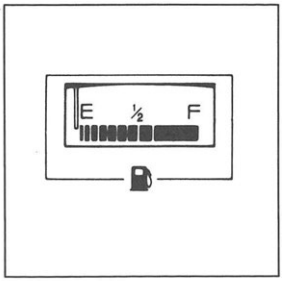
# Gauges

## C FUEL GAUGE

When the ignition key is in the "ON" position, this gauge indicates the amount of fuel in the fuel tank.

The maximum fuel capacity is 33 litres. Refer page 135 for refuelling information.

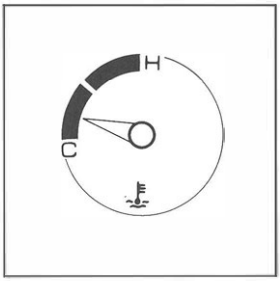


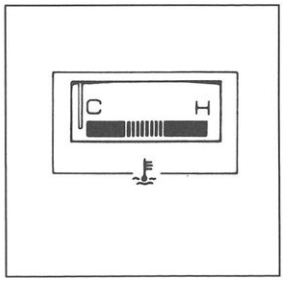




## D COOLANT TEMPERATURE GAUGE

The coolant temperature is indicated by this gauge with the ignition switch turned on.

If the needle moves to the "H" mark an overheat condition is indicated. Refer page 46.




## E CLOCK

The clock operates as long as electrical power is connected to the system. However, the digital display can not be seen unless the ignition switch is turned to the "ON" or "ACC" positions.

**To reset the minute display:**

- Pull out the reset knob to reset the minute display to zero. The hour display may also be affected when the minute display is reset. For example, times between 1:01~1:29 will be reset to 1:00 and times between 1:30~1:59 will be reset to 2:00
- Push in and turn the knob clockwise (toward "M") to advance the minute display.

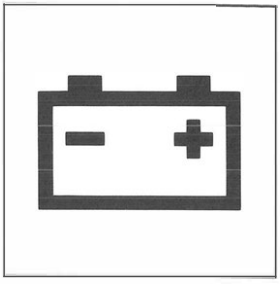
**To reset the hour display:**

Push in and turn the knob counterclockwise (toward "H") to advance the hour display.

# Warning Lights

## [F] GENERATOR WARNING

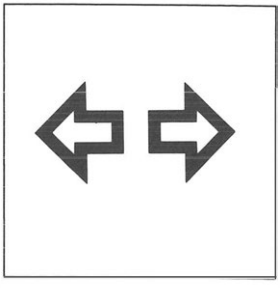
If the light should glow while the engine is running it indicates that the generator is not charging. You should stop the engine and check the generator drive belt for looseness or breakage. If the belt is okay, there is a problem somewhere in the charging system which should be corrected as soon as possible.



## TURN SIGNAL INDICATORS

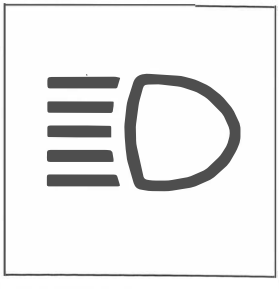
The appropriate green signal will continuously flash when the lever on the right side of the steering column is moved (refer page 10).

**Note:** Both arrow signals will flash when the Hazard Warning Flasher button (on the top of the steering column) is raised. Refer page 40.



## HIGH-BEAM INDICATOR

When the headlights are on high-beam a blue signal will glow. (Refer page 10)



## OIL PRESSURE WARNING

If the light should glow when the engine is running, stop the engine and do not operate it until the cause of **low** oil pressure is corrected.

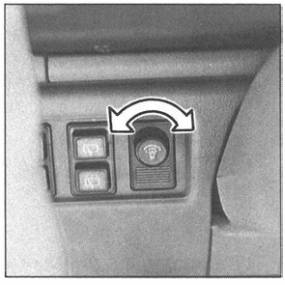
# Warning Lights

## BRAKE FLUID/PARKBRAKE WARNING LIGHT

If this symbol is displayed when you are driving and the parkbrake is fully released it indicates that there may be a fault with the braking system. You should immediately stop the car (as carefully as possible) and check the fluid level of the brake master cylinder, as shown on page 68. Do not proceed until the reason for the low level has been located and rectified.

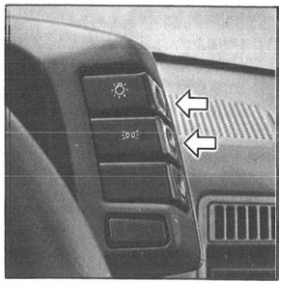
## G INSTRUMENT LIGHT CONTROL

Turn the knob anti-clockwise to dim the instrument lights and clockwise to brighten them.



# Turn Signals & Headlights

## [H] LIGHT SWITCH



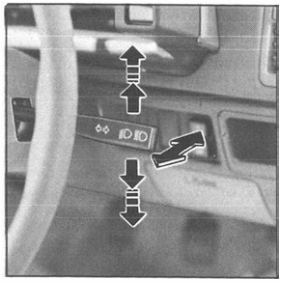
The exterior lights of your Barina (except for turn signals) are controlled by the two switches on the right side of the meter panel.

- The lower switch controls the park, tail, rear licence and instrument panel lights.
- The top switch controls all the above lights as well as the headlights.

You may "inter-change" between switches, that is you may press the top switch, then the lower switch then the top one again if you wish. However, pressing either switch twice in succession will turn OFF all the lights.

Example: 1. press lower switch (turns on the parking lights)
2. press top switch (turns on headlights)
3. press top switch (turns off all lights)

## [I] TURN SIGNAL & HIGH-BEAM



**Turn signal:**

The turn signals are operated from the lever mounted on the right side of the steering wheel column. The lever is pushed up to signal a left turn, and down to signal a right turn. The lever will return to the neutral position when the turn is completed.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. To indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

A green arrow on the instrument panel (refer page 8) will flash when the lights are in operation. This is accompanied by a clicking sound.

**High beam:**

With the headlights on, push the lever forward for high beams. Pull back for low beams. For headlight flasher, pull further toward the steering wheel.

# Wipers, Washers & Demisters

## [J] WINDSHIELD WIPER SWITCHES & [K] WASHER BUTTON

The windshield wipers are controlled by the three switches on the left side of the meter panel.

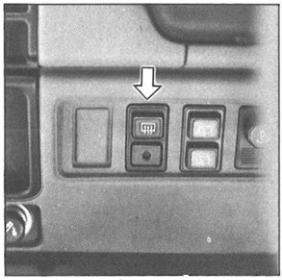
- Pushing in the lower switch turns the wipers to intermittent speed.
- Pushing in the middle switch turns the wipers to normal speed.
- Pushing in the top switch turns the wipers to high speed.

You may "inter-change" between switches, that is you may select high speed, then low speed, then high, then intermittent if you wish. However, pressing any switch twice in succession will turn OFF the wipers.

Example: 1. press top switch (turns wipers to high speed)
2. press lower switch (turns wipers to intermittent)
3. press lower switch (turns wipers off)

Never operate the wipers on dry glass, as this will damage the rubber. To obtain a spray of fluid, depress (as long as required) the button directly beneath the wiper switches.

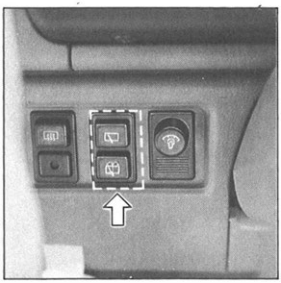
## [L] REAR WINDOW DEMISTER SWITCH



To demist the rear window, depress the button illustrated. This operates when the ignition is in the "ON" position, and when activated, an orange light beneath the switch will glow.

To avoid overloading the electrical system, re-press (turn off) the switch when the rear window is clear.

## [M] REAR WINDOW WIPER AND [N] WIPER SWITCH



With the ignition switch in the "ON" position, the wiper operates when the switch is pushed in and stops when the switch is pushed a second time.

Never operate the wipers on dry glass, as this will damage the rubber.

Window washer fluid will spray out and the rear wiper will open while the washer button is depressed.

# Ashtrays & Lighter

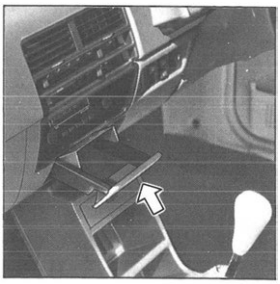
## [O] CIGARETTE LIGHTER

Push the cigarette lighter into the socket. The tip of the lighter will get red-hot after about ten seconds. The lighter may be taken out and used after it has returned automatically to its original position. The lighter will heat up when the ignition key is turned to the "ACC" or "ON" position.

## [P] ASHTRAY

**Front ashtray**

The ashtray is to the left side of the steering wheel. To clean the ashtray, remove by pushing down centre flap, while pulling completely out.



**Rear ashtray**

The ashtray for rear passengers is between the seat backs of the two front seats. Flip the cover forward and up to access.

REMOVAL: The ashtray is held in place by four clips — two at the front and two at the rear. Tilt the unit forwards and up to disengage rear clips, then backwards to remove.

To reinstall, first engage front clips whilst holding unit tilted forward. When front clips are in position, push the unit down.

# Miscellaneous

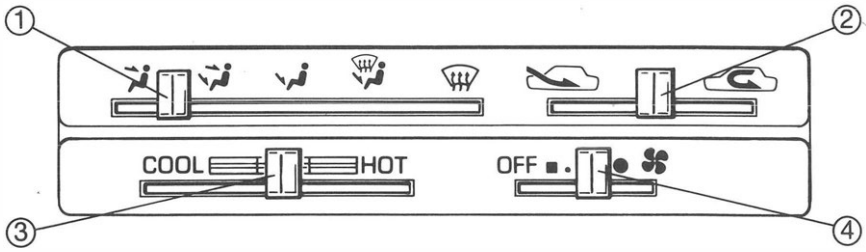
## Q HAZARD WARNING SWITCH

Use the hazard warning light as a warning to other traffic during emergency parking or when your vehicle is considered a traffic hazard. Refer page 40.

## R GLOVE BOX

The glove box will open toward you when the button is pushed in, as shown.

# Heater




## Air Selector Lever ①

VENTILATION : Air is directed from central and large side vents of the instrument panel.

BI-LEVEL : Air is directed from the centre vents and heated air from the floor vents.

HEATER : Heated air is directed from the floor vents and a small amount of heated air from the windshield and small-side vents.

DEFROST & HEATER : Air is directed from the floor outlets, windscreen and small-side vents.

DEFROST : Heated air is directed from the windshield vents and small-side vents.

## Air Intake Control Lever ②

Recirculated or outside air intake can be selected with the air intake lever. The "RECIRCULATION" position should be used (with the windows closed) when outside air is not wanted, as when driving in dusty conditions.

## Temperature Control Lever ③

The temperature control lever adjusts the air temperature.

## Blower Lever ④

The blower lever controls fan speed.

# Heating & Ventilation

**Natural Ventilation**

Move the air selector lever to the "VENTILATION" position, the air intake lever to "FRESH AIR" and the temperature control lever to "COOL". The blower lever can be set at any position.

**Heating**

For quick heating, move the air selector lever to "HEATER", the air temperature lever to "HOT", the air intake lever to "RECIRCULATE" and the fan to a high speed.

When the car interior is warm, move the air intake lever from "RECIRCULATE" to "FRESH", as the air in the car can become contaminated, making the windows cloudy.

To reduce the heat, switch off the fan and/or slide the temperature level away from "HOT".

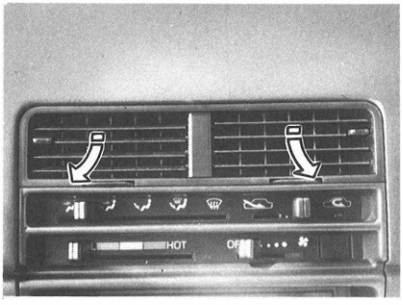
"BI-LEVEL" may also be used for gentle heating, as cool air is directed to the face and warm air to the feet.

## Vents

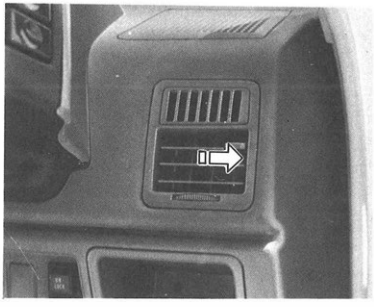
Outside air is drawn in through the grille in front of the windscreen — so do not allow this to be covered or clogged with leaves, snow, etc. The air can be directed (by the heater controls) into the car via five different types of vents — demister, centre, floor, large-side and small-side vents.

The large-side and centre vents have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

**CENTRE VENT**



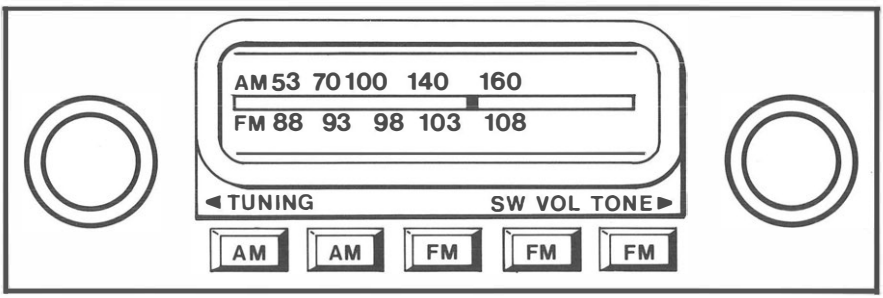

**SIDE VENT**



The small-side, demister and floor vents are fixed, as these direct air to the windows or onto the feet and legs in the best possible way.

After passing through the car, stale air is then expelled through two extractor vents in the rear of the car.

# Radio




The radio operates when the ignition key is turned to the "ON" or "ACC" positions.

## Right Side Knob

The right side knob has two sections, front and rear. Turning the front section adjusts the VOLUME and turning the rear section adjusts the TONE. To switch the radio ON, push the front of the knob; a second push will turn the radio OFF.

Your Barina is fitted with four speakers, one at either side of the instrument panel and one at either side of the rear load compartment area. By pulling out and turning the right side knob on the radio you may adjust the sound BALANCE between the right speakers and the left speakers.

## Left Side Knob

The left side knob has two sections, front and rear. Turning the rear section of the knob adjusts the FADER control, ie the balance between the front speakers and the rear speakers.

Turning the rear section of the knob alters the station tuning. This can be done at any time and will not affect the ability of the push-buttons to recall preselected stations.

To pick up an FM station when the radio is in the AM mode, first push any of the FM buttons and then turn the knob as required. To pick up an AM station when the radio is in the FM mode, first push any of the AM buttons and then turn the knob as required.

## Push-Buttons

The push-buttons enable you to turn the radio to any five preselected stations without the need to operate the manual tuning control. Two AM and three FM stations may be selected.

**Resetting push-buttons:** You may alter the station to which any particular push-button is preset simply by resetting that push-button (see below). You may reset any or all of the push-buttons in this way as often as you like. Although you may reset the push-buttons in any order, it may be convenient to work along the push-buttons from left to right, preselecting your preferred five stations from left to right across the dial.

To reset the push-buttons to the required stations, proceed as follows:

1. Switch the radio ON.
2. Set the VOLUME control to a higher than normal position.
3. Unlock the push-buttons (or push-button) by pulling firmly outwards.
4. Accurately tune the receiver to the required station with the manual tuning control.
   **NOTE:** Subsequent push-button tuning can only be as accurate as your initial setting up.
5. Lock push-button to the station by pushing in firmly.
6. Repeat steps 4 and 5 for each remaining station and push-button.

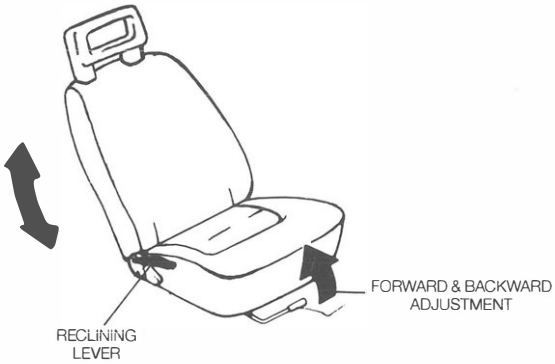
Refer page 25 for antenna extension.

CHAPTER 2

# Before Driving

page 20 — Front Seat Adjustments
21 — Folding Rear Seat
22 — Seat Belts
25 — Mirrors
25 — Antenna
25 — Windows
26 — Keys
26 — Fuel Cap
27 — Door Locks, including hatch lid and "child proof" locks.
28 — Horn
28 — Interior Light
28 — Parking Brake

# Front Seat Adjustments




## Forward and Backward Setting

Pull up the lever at the front of the seat, then slide the seat to the desired position. Release the lever. Try to move the seat back and forth to check that the catch is fully engaged. Adjustment should not be made to the driver's seat when the car is moving. The seat could move suddenly and cause the driver to lose control.

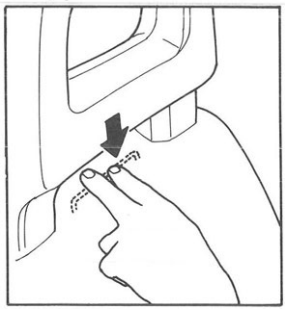
## Reclining Back Control

The angle of the seat back can be altered by raising the reclining lever, then moving to the desired position.

**CAUTION: To avoid reducing the effectiveness of seat belts it is recommended that reclining seats be used in no more than a semi-reclined position when the vehicle is moving. The fully reclined position should be used only when the vehicle is stationary.**

## Head Restraint

The head restraint is not adjustable in height but can be removed by pushing down the wire (illustrated) underneath the seat cloth and pulling up head restraint.

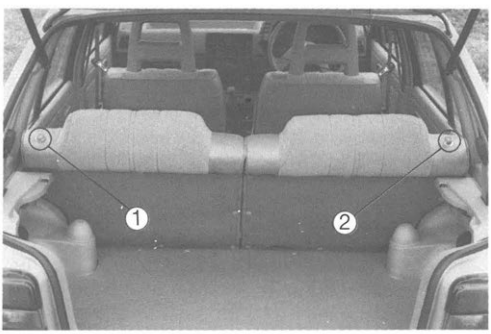


**CAUTION: Do not drive your Barina with the head restraint removed as this safety feature is provided to reduce the whip-lash movement following vehicle collision.**

# Folding Rear Seat

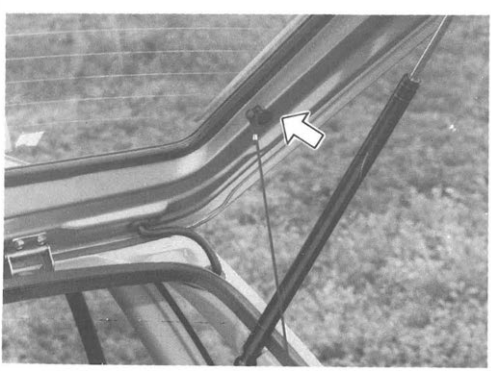
The rear seats may easily be converted into cargo space by individually folding forward the rear seat backs.

Buttons 1 and 2 lock the seats when in the upright position. To convert a seat, raise the lock button and whilst held up, fold the back of the seat forward and down.




To gain more space, remove the rear parcel shelf by unhooking the tops of the two suspension cords, and unclipping the shelf at both sides.

To return the seat to normal position, lift the back of the seat up and push until it locks into place.



**CAUTION: When converting the rear seat always avoid standing on the driver's side of the vehicle if the vehicle is parked at the kerb. Failure to do so could result in personal injury from passing vehicles.**

# Seat Belts

## Retractor Belts

To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt by running your hand under the belt starting at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

## Lap-Type Belts

To adjust: Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

## Maintenance of Seat Belts

- Check seat belts regularly. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked. Your GM-H Dealer will do these things as part of the schedule maintenance plan.
- Seat belts must be replaced if they have been in use during a severe impact — even if there is no obvious damage.
- Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

# Seat Belts

## Infant and Child Restraints

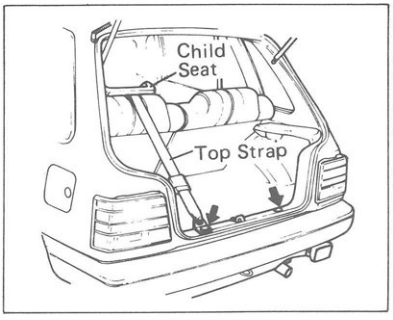
CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE.

In some states it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with the regular seat belt or an approved child restraint.

Where children are restrained with the regular seat belt and it is desired to raise their seating position this is to be done only by means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF VEHICLE COLLISION.

## Child Restraint Anchorages

Your Barina is designed to accommodate a child restraint on the rear seat. Anchorages are located on either side of the luggage compartment floor. Remove the plugs and install child restraints with the correct anchor bolts.




Only approved child restraint harnesses should be used on anchorage points. See your GM-H Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried in a padded bassinet or carry basket placed across the back seat.

A suitable type of bassinet restraining system should be used.

The Holden's Child Seat designed for children weighing 9 to 19 kg, up to 1 metre in height, who are able to sit up alone.

**WARNING: Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.**

# Seat Belts

## AUSTRALIAN DESIGN RULES: WARNINGS

*Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.*

*Seat belts should be ajdusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.*

*Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.*

*It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.*

*Belts should not be worn with straps twisted.*

*Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.*

*No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.*

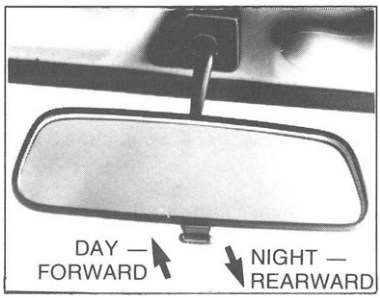
*The positioning of the tongue restrictor must never interfere with or stop the belt from fully retracting.*

# Antenna, Mirrors & Windows

## Inside Mirror

The lever on the lower edge of the mirror enables reduction of the headlight glare from following vehicles when driving at night.

During normal daylight operation, the lever should be set forward, away from driver. To reduce the glare at night, pull the lever towards the driver.




## Outside Mirror

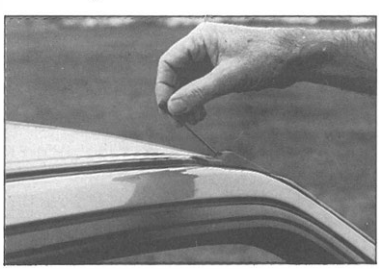
When sitting in the normal driving position, move the mirror by hand so that you can just see the side of your vehicle.

## Windows

The door windows are lowered or raised by turning the winders which are fitted to each door.

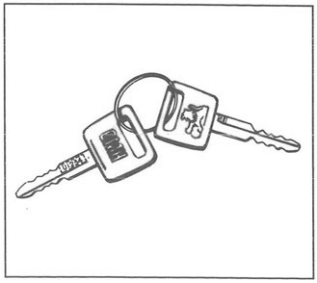
## Antenna

The antenna is located in the driver's side front pillar. To extend it, pull the knob up. For ease of retraction the antenna must be kept clean.



# Keys and Locks

## Keys



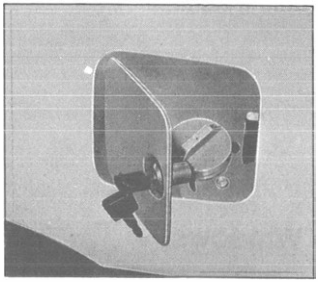
This vehicle comes equipped with a pair of identical keys. Keep the spare key in a safe place. The key can operate the following:

- Ignition switch — refer page 31
- Door locks
- Fuel filler lid lock
- Hatchback lid lock

The keys are stamped with an identifying number. This number is used when making replacement keys.

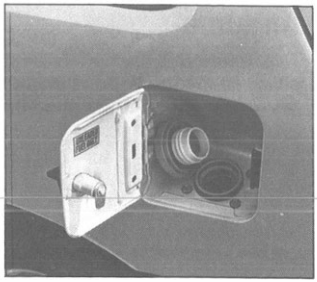
Before placing the key on your key ring, record the code number and place it in a safe place so that if the key is lost, duplicates can be ordered from any GM-H Dealer by quoting the key code number.

## Fuel Cap Lock



The fuel filler lid is on the left side of the car. For theft protection the lid can be locked. To unlock the lid, turn the key clockwise. To lock, turn the key counter-clockwise.

Refer to information on page 135 when refuelling.



The fuel tank filler cap has a "screw-on ratcheting type" feature.

- To remove — rotate cap counterclockwise to clear the inside of the filler neck. This will allow any residual pressure to escape.
- To install — reverse this procedure and tighten cap securely until a "ratcheting", clicking sound is heard indicating cap is on properly.

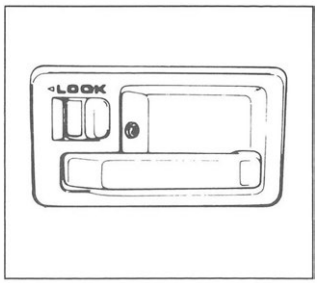
Refer page 65 for bonnet lock release.

# Door Locks

Each door may be locked when inside the car by moving the lock lever in the direction of the arrow — so that the red section cannot be seen. To unlock, move the lock lever frontwards.

Doors may be locked from outside by moving the lock button rearwards, then closing the door firmly.

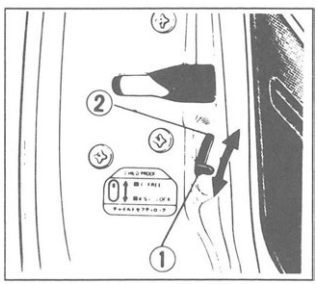
Alternatively, the front doors may be locked (or unlocked) with the ignition key.




## Rear "Child Proof" Door Locks

This added safety feature is built into both rear door locks. To operate, lower the lever (at the rear of the door) as far as it will go (position 1) and close the door. The door cannot then be opened from the inside.

To unlock, open the door from the outside and slide the lever up to position 2.

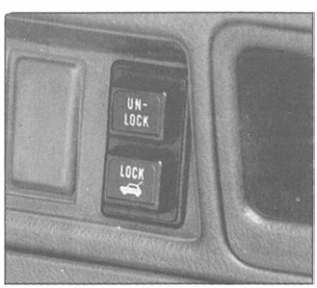



**CAUTION: For safety, you should check that the lock is operating correctly, after setting, by attempting to open the door from the inside of the vehicle.**

## Hatchback Lid

The hatch lid can be unlocked or locked from outside the car by inserting the ignition key in the lock and turning clockwise to lock, or anti-clockwise to unlock.

When inside the car, the hatch lid may be locked or unlocked with the remote switches on the instrument panel. Press the top switch to unlock, or the lower switch to lock the hatch lid.




**CAUTION: To prevent entry of dangerous exhaust fumes into the car, the hatch lid should be closed during vehicle operation. However, if it is necessary to leave the lid open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up. Select "Fresh" air with heater controls and switch fan to highest speed.**

# Horn, Parking Brake, Interior Light

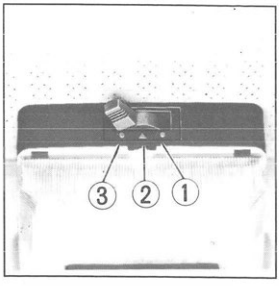
## Horn Button

The horn will sound when the horn button is pressed, regardless of the ignition switch position.

## Interior Light Switch

There are three positions.

① : The light stays on regardless of whether the door is opened or closed.
② : The light comes on while the driver's door is opened.
③ : The light remains off even with the driver's door opened.

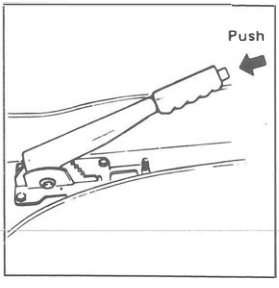



## Parking Brake

The parking brake operates on the rear wheels only. To apply, pull the handle upwards.

When the ignition is switched to "ON" a light on the instrument panel will indicate that the parking brake is set, refer page 9.

To release, raise the lever slightly, push in the button on the end and fully lower the lever while keeping the button depressed.



CHAPTER 3

# Starting & Driving

page 30 — Safety Check List
31 — Ignition Lock
32 — Starting the Engine
33 — Manual Transaxle
34 — Automatic Transaxle
35 — "Running-in"
35 — Fuel Consumption Tips
36 — Driving Precautions

## Exhaust Gas Warning

**(Carbon Monoxide Poisoning)**

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gas entry into the interior of the vehicle we recommend that the exhaust system and body be thoroughly inspected:

— each time the vehicle is serviced;
— whenever a change is noticed in the sound of the exhaust system; or
— whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your GM-H dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING AND DON'T LEAVE THE CHILDREN OR YOUR PETS IN THE VEHICLE EITHER.

DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE, ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

Driving with the hatch lid open is not recommended. If you must travel with the hatch lid open, close all windows, select "fresh air" with the heater controls, turn the fan to the maximum setting and do not exceed 50 km/h unless necessary.

## Safety Checklist

Following these simple steps before driving your new vehicle will help make your motoring safer:

**Before Entering the Car**

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation. (Refer page 71.)
3. If you intend to reverse, check that the area behind your car is clear.

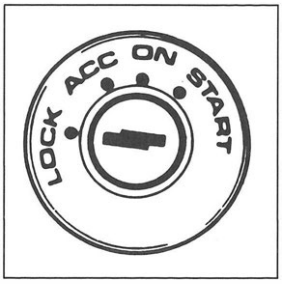
**Before Driving Off**

1. Be sure that all doors are secured. (Refer page 27.)
2. Position your seat for comfortable driving. (Refer page 20.)
3. Adjust rear vision mirrors. (Refer page 25.)
4. FASTEN SEAT BELTS. (Refer page 22.)
5. Check that the warning indicators light up when you turn the key to start the engine. (Refer pages 8, 9.)

**CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.**

# Ignition Lock

## Lock




Normal parking position. Accessories and engine are off. This position locks the ignition and steering when the key is removed. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it once to "ACC" or other positions. If you have trouble turning the key to unlock the steering, turn the steering slightly to the right or to the left while twisting the key clockwise.

## ACC

The engine is off but accessories such as the radio still operate.

## ON

This is the position at which the engine is ready to start and all electrical systems are active.

Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

## START

This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

**CAUTION: Do not turn the engine off while the vehicle is in motion as this renders ineffective any power assisted equipment operated by the engine. Never remove the key while the vehicle is in motion as this will lock the steering of the vehicle.**

# Parking

When leaving your vehicle:

1. Apply the parking brake.
2. Place manual transaxles in "Reverse" gear and automatic transaxles in "Park".
3. Turn ignition key to "Lock" and remove key.
4. Shut all windows and lock all doors.

# Starting

1. Ensure the parking brake is firmly applied and release only after you have started the engine and are ready to drive off.
2. **Manual Transaxle**
   Depress the clutch pedal and shift the gear lever to Neutral Position. The clutch pedal can now be released.

   **Automatic Transaxle (where fitted)**
   Move the shift lever to 'P' (Park) or 'N' (Neutral) position. The engine will not start if it is in any other position.
3. Start the engine as follows for different conditions.

**CAUTION: Do not crank the engine for more than five seconds at a time. If the engine does not start, wait at least five to ten seconds before trying again.**

## Cold Engine

Do not push the accelerator pedal. With your foot off the pedal, crank the engine by turning the ignition key to "START". Release the key when the engine starts. If the engine does not start after three seconds of cranking, push down the accelerator pedal to ⅓ of its travel while cranking. Release the key (and accelerator pedal) when the engine starts.

## Very Cold Weather or after Vehicle has been standing idle several days

Before cranking the engine, fully push down and release the accelerator pedal one or two times. Then, with your foot off the accelerator pedal, crank the engine by turning the ignition key to "START". Release the key when the engine starts.

## Warm Engine

Push the accelerator pedal to ⅓ of its travel and hold. Crank the engine by turning the ignition key to "START". Release the key and accelerator pedal when the engine starts.

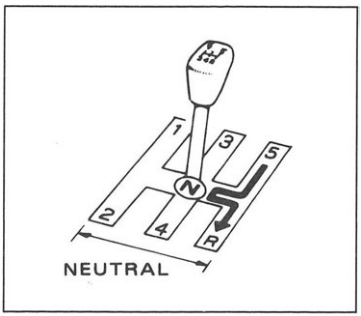
## Flooded Engine

If you tried the Cold or Warm Engine starting procedure and the engine still does not start, push the accelerator pedal down to the floor and hold it there while cranking the engine. This should clear the engine if it is flooded.

If the engine has been flooded with too much fuel, it may start to run but not have enough power to keep running. In that case, continue cranking with the accelerator pedal all the way to the floor until the engine clears itself of excess fuel and runs smoothly. However, do not crank for more than 5 seconds at a time or you could damage the starter.

# Manual Transaxle

This system has 5 fully synchronised forward gears and a non synchronised reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.




**When SELECTING REVERSE GEAR**
The gear shift lever will not move directly from "5th" gear to "Reverse".To shift into "Reverse" from 5th gear, push the clutch pedal in, shift into "Neutral", move the lever to the left, back to the right, then into "Reverse" gear.

Never attempt to engage "Reverse" gear until the car has completely stopped. A slight pause between depressing the clutch pedal and moving into "Reverse" gear is desirable to allow all the rotating components to stop and avoid gear crashing.

The chart on the right shows the recommended speed range of each gear.

Road speed limits should be observed.

| | |
|---|---|
| First | Up to 40 km/h |
| Second | 10– 70 km/h |
| Third | 20–110 km/h |
| Fourth | 30–140 km/h |
| Fifth | 40 km/h upwards |

## Operating Notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possibly chipping the transaxle gears.
- Shift the gears with a moderate effort to allow time for the transaxle synchronizers to work properly.
- Whenever "Reverse" is selected with the ignition on, the back-up lights will operate.
- Do not drive with your foot resting on the clutch pedal as damage to the clutch may result.
- When stopped on an incline do not hold the vehicle by slipping the clutch. Use the foot brake or parking brake.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not overspeed the engine when shifting down to the next lowest gear.

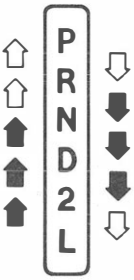
**CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.**

# Automatic Transaxle

Depress the button on the side of the T-bar handle when shifting to R or P and when shifting from 2 to L; as indicated by the arrow.⇨

You may shift without depressing the button into any positions indicated by the arrow. ➡

NOTE: The engine will not start unless the selector is in P (Park) or N (Neutral).




| | |
|---|---|
| P— (PARK) | This stops the rear wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select P until your car is fully stopped. |
| R— (REVERSE) | Never select R until your car is fully stopped. Reversing lights will operate when R is selected and the ignition is on. After reversing, make sure the car has fully stopped before proceeding forward again. |
| N— (NEUTRAL) | This is the out-of-gear position. You may then restart a stalled engine while the car is still moving. |
| D— (DRIVE) | This is the normal forward driving position and allows the transaxle to choose the appropriate gear for the load and driving conditions. |
| 2— (SECOND) | Use this position when going down a moderate gradient where you want to slow down a little without using the service brakes. Shift back into the "D" position to return to normal driving. |
| L— (LOW) | Use this position when strong braking effect is needed on a steep gradient. Shift back to "D" range so that the transaxle will again upshift into direct drive. The transaxle will not change down to low gear (even if selected with the T-bar) above 53 km/h. |

## Automatic Driving Don'ts

- Don't rev the engine with the brakes on in either L, 2, D or R. This will overheat the transaxle.
- Don't rev the engine to hold the car on a slope. Use the brakes.
- Don't ever coast the car in N – this lessens your control and the engine braking power.

Refer page 78 when checking automatic transaxle fluid level.

CHAPTER 3
STARTING & DRIVING

# Running-in & Fuel Economy Tips

## New Car "Running-in" Period

These days, there's no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 kilometres, don't exceed 90 km/h. Up to 1,500 kilometres avoid driving at any one speed — either slow or fast — for any length of time. During this time, avoid full throttle starts and high engine revs.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

## How to Reduce Fuel Consumption

The following information is to help you obtain the least fuel consumption from your vehicle.

### VEHICLE MAINTENANCE

Maintain your car in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedules. This will ensure items such as engine timing, spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption.

### TYRE PRESSURES

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance which contributes to increased fuel consumption. Refer page 71.

### WHEEL ALIGNMENT

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

### WARM UPS AND EXCESSIVE IDLING

- Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.
- You should also avoid excessive engine idling. If you have to wait for more than a couple of minutes turn off the engine to conserve fuel.

### ACCELERATING, DRIVING AND BRAKING

- Accelerate gently — avoid rapid starts, sudden bursts of speed and full throttle accelerations — they're certain fuel wasters.
- Drive the vehicle at steady speeds where possible (after run-in). It is desirable to achieve top gear operation, as soon as possible, but under no circumstances should you force the engine to labour in top gear.

**NOTICE:** "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake linings and pads faster, damage the brakes and waste fuel.

# Driving Precautions

## Tyre Traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

## Loose Articles

Do not leave loose articles or luggage in the passenger compartment. Loads stowed in the luggage area should be firmly secured.

## Brakes

Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

Also, your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.

### POWER ASSISTED BRAKES

Power assisted brakes which are fitted to your vehicle utilise vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running. **Never** coast with the engine switched off.

CHAPTER 4

# Accidents & Emergencies

**PART A — ACCIDENTS**

page 38 — What to do at the scene of the accident

39 — Medical Assistance

**PART B — EMERGENCIES**

page 40 — Hazard Warning Flashers

40 — Towing a Vehicle

41 — Spare Wheel Stowage and Removal

42 — Changing a Wheel

44 — Starting when the Battery is Flat

46 — Engine Overheating

CHAPTER 4A
ACCIDENTS &
EMERGENCIES

# Accidents

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to-mouth resuscitation, may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

- **Part 1. Accident — being involved.**
- **Part 2. Accident — being a witness.**
- **Part 3. Medical assistance.**

## Part 1. Accident — being involved

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons. (See Part 3 Medical Assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occured, report the facts to the owner of the damaged property or to his or her representative; to any police present at the scene or to the nearest Police Station.

Try and note all important facts because such details may be important if needed later

## Part 2. Accident — being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident, do this:

Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.

DO NOT stop at the scene of an accident *just to be a spectator.*

Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.

# Accidents

Give what assistance you can to any injured persons. (See Part 3 Medical Assistance.)

Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

## Part 3. Medical assistance

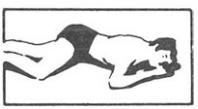
Keep calm and think clearly.

Your experience may not be much but do your best. Don't just stand by and let an injured person die.

- Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

*Unconscious people can choke.*
*Carefully turn to one side.*
*Tilt the head back slightly.*
*Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.*

- You must be most careful in moving an injured person. Often it is best not to move at all but, in conditions of danger, that is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Provided it is not dangerous to do so because of other injuries, an unconscious person will do best in the "coma position" illustrated here.



*Lay the person on one side and — if it will not aggravate any injuries — then:*
*Bend the uppermost knee until the thigh is at right angle to the body.*
*Bend the uppermost arm and elbow so that the hand lies near the face.*
*Gently pull the underneath arm so that it rests straight on the ground free of any body weight.*

- Try to stop bleeding by applying direct pressure, using your hands, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary, press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

  Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm *but not hot.* Best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. **Keeping the neck and spine straight is most important.**

*Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffiic Authority of Victoria.*

CHAPTER 4B
ACCIDENTS &
EMERGENCIES

# Hazard Warning Flashers & Towing

## Four-Way Hazard Warning Flasher

Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

- Turn on the hazard warning flasher by pulling up the button located on the top of the steering column. This makes all four turn signal lights flash continuously. The signal indicator lights on the instrument panel will also flash simultaneously.
- The flasher will work with the ignition either off or on.
- To turn off the flasher, push the button down.

## Do not Tow a Trailer

This car is not designed or intended to be used to tow a trailer. Towing a trailer may affect handling, durability and economy.

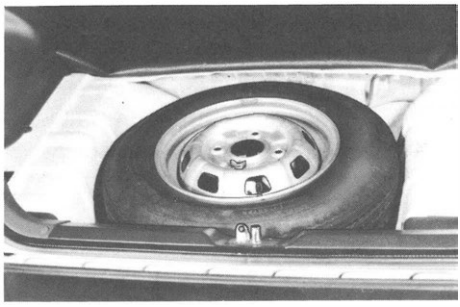
## Towing a Disabled Vehicle

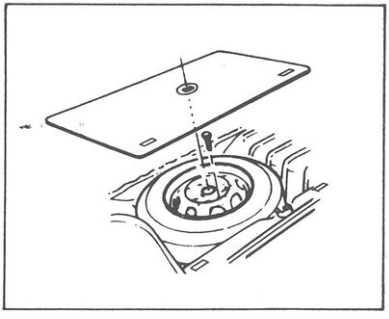
Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage to it during any towing operation. State and local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the tie down hooks on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transaxle in neutral and release the handbrake.
- Switch the ignition key to "ACC" position. This will free the steering lock and allow the correct operation of windshield wipers and turn signals.
- For the sake of safety and to prevent damage to the vehicle, it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes will not be available when the engine is off.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "OFF" position.
- Vehicles with damaged transaxles or driveshafts must not be towed with the front wheels on the ground. The front of the vehicle must be raised.
- Only the driver should be in a flat towed vehicle — no one should be in a raised towed vehicle.
- Vehicles with automatic transaxles must not be towed with all 4 wheels on the ground. The front of the vehicle must be raised when towing.

# Spare Wheel

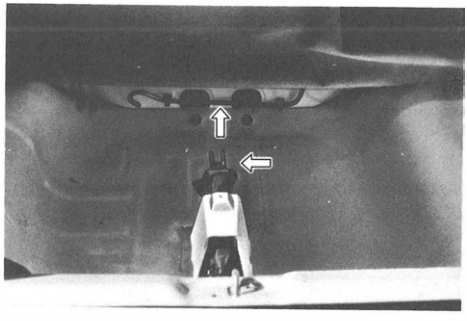
The spare wheel is stowed in the luggage compartment behind the rear seat.





## Stowage of Jack and Jack Handle

Jack and jack handle are stowed in the luggage compartment behind the rear seat. To remove the jack, turn its shaft counter-clockwise. To stow the jack, place it as shown, and turn the shaft clockwise until the jack is fixed firmly.



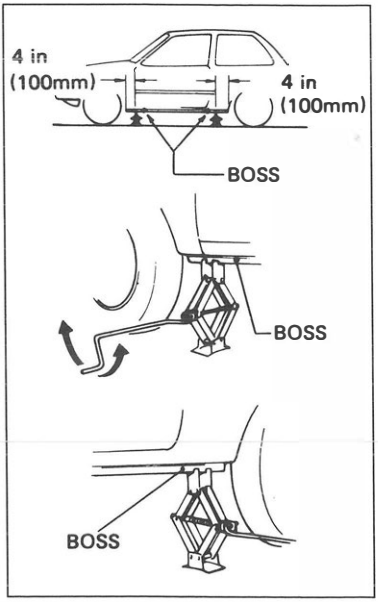
# Flat Tyre

**CAUTION:**

- **Use jack only for lifting vehicle when changing wheels.**
- **Never get beneath the vehicle when it is supported by the jack only.**
- **Do not start or run the engine while the vehicle is supported by the jack only.**
- **All passengers should be out of the vehicle when it is being jacked.**

1. Park on level surface and set parking brake firmly.
2. Set automatic transaxles in park (manual transaxles in reverse) and remove ignition key.
3. Remove the tools and spare wheel (refer previous page).
4. Block the wheel diagonally opposite the jacking position.
5. Loosen, but do not remove, wheel nuts by turning wrench counter-clockwise.
6. Set the jack vertically and raise it until the jack head fits in front (for front wheel) or at the rear (for rear wheei) of the boss on the rocker flange as illustrated.
7. Turn the jack handle clockwise slowly and smoothly until the tyre clears the ground. Do not raise more than necessary.

   Care should be taken to check that the vehicle is being raised vertically during the "jacking-up" process. If the jack begins to "tilt", lower the jack to correct the position.



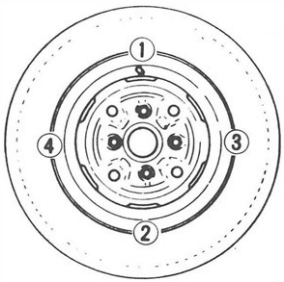
# Flat Tyre

8. Remove the wheel nuts and avoid losing them or getting dirt in the threads. Remove the wheel and change it over with the spare.

9. Replace wheel nuts with their cone shaped end facing the wheel. Tighten to "finger tight" and then lightly tighten using the wrench until the wheel is seated on the hub.

10. Turn the jack handle anti-clockwise until the vehicle is completely lowered and remove the jack.

11. Fully tighten wheel nuts with the wrench using the nut tightening sequence illustrated.




12. Stow the tools and changed wheel according to the previous instructions.

**CAUTION: As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench on 40–70 Nm (30–50 ft.lbs).**

**Wheel nuts should be tightened evenly to the correct torque in the numerical sequence shown.**

**Improperly tightened wheel nuts could eventually allow the wheel to come off while the car is moving, possibly causing loss of control, and/or personal injury or damage.**

# Flat Battery

If the engine will not turn over and start, retry after turning off ALL electrical switches, ie. front and rear window wipers, rear demister, radio, heater fan, headlights and interior light. Also, ensure battery posts and/or cables are clean and tight.

If the engine is still turning over too slowly to start, switch on the headlights (or interior light) then again turn the ignition key to "START". If the lights are not reduced to a dim glow either before or after cranking the engine, the problem is not of a discharged battery and you should contact your GM-H Dealer. However, if they were very dim then you should follow the "jump starting" instructions below.

**CAUTION: DO NOT attempt to "push start" or "tow start" your Barina. These vehicles are fitted with a catalytic converter and if unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.**

If your vehicle will not start due to a discharged battery, it can often be started by using energy from another battery — a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting", we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

## Jump Starting

**CAUTION: Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:**

- **Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.**
- **Do not smoke near a battery.**
- **Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.**
- **Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paintwork and fabrics if not washed off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around a battery.**
- **Carefully follow each step in the jump starting procedures.**

**Also, never use a quick charger to start your engine.**

# Flat Battery

1. The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle — that is being used to jump start the flat battery — must be the same voltage and also have a negative earth. So, check the specifications in the other vehicle's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used to energise the flat battery.

2. Position the two vehicles so that they are **not** touching and apply the park brake. Automatic transaxles are to be placed in 'PARK' and manual transaxles in 'NEUTRAL'. Turn off ignition and all lights and accessories in both cars, except the hazard flasher or any lights needed for the work area.

3. Attach one end of the first jumper cable to the positive terminal of the **booster battery** (identified by a red colour, + or P on the battery case, post or clamp) and the other end of the same cable to the positive terminal of the **discharged battery.**

4. Attach one end of the second jumper cable to the negative terminal (black colour, – or N) of the **booster battery,** and the other end to a solid, stationary, metallic point on the engine of the vehicle with the discharged battery **(do not connect directly to negative post of discharged battery).**

5. When making all connections take care that the clamps from one cable to not inadvertently touch the clamps on the other cable. Also ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the vehicle which has the good battery and run the engine at a moderate speed. Then start the engine in the vehicle that has the discharged battery.

7. When the engine starts, leave it running then remove the jumper cables by reversing the above installation sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

# Engine Overheating

**CAUTION: If the engine should overheat, as indicated by the Temperature Gauge reading, or if you suspect there is a serious overheat condition, immediate action is required. Continued operation of the engine EVEN FOR A SHORT TIME could result in a fire and the possibility of personal injury and/or vehicle damage.**

If you can see or hear steam escaping from the engine compartment or have other reason to suspect there is an overheat condition, stop the vehicle, as soon as it is safe to do so, and turn off the engine.

Do not open the engine hood if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the hood.

While the engine is cooling, check your fan belt for slipping or breakage and check that the fan turns when the engine is cranked.

Look for leaks at the radiator hoses and connections, heater hoses and connections, water pump.

**Take care when checking all these areas as they will probably still be hot.**

If you find major leaks or spot other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find a leak or other problem then you should check the level of coolant in the radiator.

**CAUTION: Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure, which is likely to cause serious personal injury.**

When the engine has cooled sufficiently, remove the radiator cap as follows:

Cover the radiator cap with a thick cloth and turn it slowly anti-clockwise until it reaches a "stop". Do not press down while turning the cap.

Wait until any remaining pressure (indicated by a hissing sound) is relieved, then press down on the cap and continue turning it anti-clockwise until it can be removed. Check the coolant level and add water if necessary with the engine idling. Top up recovery reservoir if required. After taking one or more of the previous steps and once the Temperature Gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the Temperature Gauge does not again show an overheat condition.

# Engine Overheating

If overheating occurs again, you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

**NOTE:** Your vehicle's engine may temporarily operate at high temperature during more demanding operating conditions especially on very hot days.These conditions include:–

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic

You should avoid operating your vehicle for prolonged periods in any of the above circumstances if the Temperature Gauge indicates high engine coolant temperature.

Refer to page 66 which gives maintenance instructions to help protect your cooling system from overheating.

CHAPTER 5

# Warranty

page 50 — Terms of Warranty
52 — Common Warranty Questions and Answers
55 — Customer Assistance
56 — GM-H Dealers — N.S.W.
57 — GM-H Dealers — A.C.T.
58 — GM-H Dealers — Victoria
59 — GM-H Dealers — Tasmania
60 — GM-H Dealers — Queensland
61 — GM-H Dealers — Western Australia
62 — GM-H Dealers — South Australia
62 — GM-H Dealers — N.T.

## HOLDEN'S MOTOR COMPANY

# New Vehicle Warranty

HOLDEN'S MOTOR COMPANY HEREBY WARRANTS THAT IT WILL MAKE GOOD, WITHOUT CHARGE, ANY DEFECT WHICH APPEARS IN THE VEHICLE IDENTIFIED IN THE VEHICLE IDENTIFICATION CERTIFICATE FOUND ON THE INSIDE OF THE FRONT COVER.

*Provided*

1. the defect has been notified to an authorised GM-H Dealer or Service Dealer:
   (a) before the vehicle has travelled a distance of 20,000 km, or:
   (b) within 12 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a Demonstrator vehicle within 12 months of the date when it was first placed into service by the Dealer)

   whichever comes first, and
2. the vehicle has been returned to an authorised GM-H Dealer or Service Dealer

*And*

3. the Dealer has determined that the defect complained of *is* one of material or workmanship and *is not* caused by:
   (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc. or by neglect.
   (b) operation of the vehicle after it is known to be defective
   (c) accident or deliberate act
   (d) atmospheric fallout or flood, hail, salt, etc.
   (e) failure to carry out proper maintenance service
   (f) use of incorrect types and grades of fuel, oil or lubricants
   (g) alteration or modification of the vehicle
   (h) the fitting of parts or accessories not marketed by Holden's Motor Company
   (i) any work carried out on the vehicle by someone other than an authorised GM-H Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN'S BY REPLACEMENT.

*Excluded from this Warranty are*

- defects in tyres (these being warranted by their manufacturers), and services such as engine tuning, brake adjustment, replacement of air and oil filters, wiper rubbers, etc. which are required as part of normal vehicle maintenance.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

# SPECIAL NOTICES TO OWNERS

**AVAILABILITY OF SERVICE AND PARTS AFTER WARRANTY**

Holden's Motor Company has franchised dealers in many parts of Australia for the sale of service parts and the provision of service to owners of Holden's products. Every endeavour is made to ensure that such dealers carry adequate stocks of service parts and are equipped to provide satisfactory service, but Holden's Motor Company does not make any promise that after the expiration of the warranty such parts or service facilities will be available, or available at any specific location or at any particular time.

**UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS**

No GMH Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden's product or in connection with the supply of any Holden's product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden's Motor Company in its published sales literature, and the Company does not accept any liability for any such unauthorised actions.

**WARRANTY ON HOLDEN'S REPLACEMENT PARTS**

Holden's Motor Company warrants in respect of Holden's parts and accessories required as replacement parts, that it will make good by repair or at its option by replacement any defect occurring in any such Holden's parts and accessories within 12 months from the date of acquisition or in the case of a Holden's part or accessory which has been installed in a vehicle by a GMH Dealer or Service Dealer before such vehicle has travelled a distance of 20,000 kms from the date of installation, whichever first occurs.

CHAPTER 5
WARRANTY

# Warranty Questions

This section is designed to assist you in understanding the terms of the Holden's Warranty provided with your new vehicle.

The following are some of the most frequently asked questions for which detailed answers have been provided.

1. **Q. How do I go about obtaining Holden's Warranty Service?**

   A. It is the responsibility of the Selling Dealer to provide Holden's Warranty Service, therefore you should take your car to that Dealer whenever Holden's Warranty Service is required. However, if this is not possible, you may go to any other Authorised GM-H Dealer. The details recorded inside the front cover of this book are required by the Dealer whenever you request Holden's Warranty Service.

   Note 1000 kilometre Warranty Service may be carried out by any GM-H Dealer, provided you have a letter of introduction from the Selling Dealer. This letter must be arranged prior to obtaining the 1000 kilometre service.

2. **Q. What should I do if in an emergency Holden's Warranty Service is required and an Authorised GM-H Dealer is not available to provide such service at that time?**

   A. If in an emergency, a repair, replacement or adjustment (covered by the Holden's New Vehicle Warranty) is required to enable your car to be operated safely and it is not practical for you to have that service performed by an Authorised GM-H Dealer, the service (to the extent that it is necessary to enable your car to be operated safely) may be performed by any other qualified service technician or repairer. A claim for the reasonable cost may be made through the Authorised GM-H Dealer who would normally provide you with Holden's Warranty Service. You must also take your car to the Authorised GM-H Dealer for inspection of the serice and/or the completion of any required Holden's Warranty Service as soon as possible.

3. **Q. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden's New Vehicle Warranty?**

   A. You should contact the nearest Authorised GM-H Dealer as soon as possible and arrange for that Dealer to carry out the required Holden's Warranty Service.

# Warranty Questions

4. **Q. Will I have to pay for any costs or expenses in connection with the provision of Holden's Warranty Service?**

   A. All parts and labour used in carrying out Holden's Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden's Warranty Service is to be carried out by the Servicing Dealer it is your responsibility to deliver your car to the Servicing Dealer's premises.

   If, as a result of a defect which is covered by the Holden's New Vehicle Warranty, your car cannot be driven safely and you arrange for the nearest Authorised GM-H Dealer to carry out the required Holden's Warranty Service, Holden's will accept reasonable towing costs to move your car to the nearest GM-H Dealer's premises. Before employing a towing company, contact the nearest GM-H Dealer and/or the Holden's Zone Office to obtain guidance.

5. **Q. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden's New Vehicle Warranty?**

   A. No, these items are not covered. The Holden's New Vehicle Warranty only covers the repair, replacement or adjustment of those parts of your car which are found to be defective in materials or workmanship. No other types of claim for compensation of any nature, notwithstanding that the same may have resulted from or have arisen as a consequence of a defect in materials or workmanship in your car will be recognized under the Holden's Warranty. The rights and remedies which are available to you under any relevant Statutory Enactment or otherwise, at law, in connection with any such claim for compensation, you must pursue outside the ambit of the Holden's New Vehicle Warranty.

6. **Q. Will I have to pay Maintenance costs during the Warranty Period?**

   A. Maintenance costs are not covered by the Holden's New Vehicle Warranty. However, the scheduled 1000 kilometre service specified in chapter 7 of this book is free of charge (except for any lubricants used), provided that your car has been operated under normal operating conditions (refer page 81) and provided also that no modifications (other than a modification made by or at the direction of Holden's) has been made to your car. The maintenance Schedules in this book specify the minimum maintenance required for your car operating under normal conditions.

   The Maintenance items, except where they are required as a result of defects in materials or workmanship, for which you will be required to pay include:–

   - Engine tune-up — includes replacing spark plugs.
   - Replacement of all filters.
   - Cleaning or flushing of fuel, cooling, brake, engine, transaxle — after the 1000 kilometre service.
   - Adding to or replacing lubricants.
   - Adding to or replacing air conditioning refrigerant.

# Warranty Questions

- Any necessary adjustments to drive belts, transaxle, clutch, parking brake, etc.
- Wheel balancing — after 5,000 kilometres.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads — after the 1000 kilometre service.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery re-charging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment — after the 1000 kilometre service.
- Door, bonnet or rear compartment lid lock adjustments.
- Glass or channel adjustments — after the 1000 kilometre service.
- Body rattles, squeaks and general tightening of bolts, fastenings and fittings — after the 1000 kilometre service.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.

7. **Q. Are my tyres covered by the Holden's Vehicle Warranty?**

   A. No. The tyres fitted to your car are covered by a separate warranty provided by the tyre manufacturer. An Authorised GM-H Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

8. **Q. Are Holden's Parts and Accessories covered by warranties?**

   A. If you purchase a Holden's part or accessory from an Authorised GM-H Dealer it will be warranted by that Dealer under the Holden's parts and accessories Warranty against defects in materials or workmanship for a period of 12 months from the date on which you purchased it. In the case of a Holden's part or accessory which has been installed in a vehicle by a GM-H Dealer or Service Dealer it will be warranted for a period of 12 months or a distance of 20,000 kms from the date of installation, whichever occurs first.

   Maintenance items such as filters, spark plugs, wiper blades and brake pads/linings will require replacement as part of normal vehicle maintenance. Such replacements are not the subject of this warranty.

CHAPTER 5
WARRANTY

# Customer Assistance

We want you to be happy with your new vehicle and with the people you deal with while you have the vehicle.

Normally, any problems which may arise with the sales transaction, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service department.

We realise however that, with the best intentions, misunderstandings do occur sometimes.

Accordingly, we suggest you discuss any concern with one of the Dealer's management people. If you feel you haven't received satisfaction from the Sales Manager or Service Manager — go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, you have the facility of the Holden's Customer Assistance Service office at your disposal. The Holden's Customer Assistance representatives can be telephoned from anywhere within Australia outside the Melbourne Metropolitan area (for only the cost of a local call) on 008: 03 3349. The Melbourne area number is 646 5466.

However, we recommend your initial discussions be with your servicing Dealer; as your problem will finally be resolved using the Dealership equipment and trained personnel.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations Division on (03) 797 7341.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact General Motors Parts & Accessories Division on (03) 797 7341.

Naturally, telephoning is both the quickest and the best way of contact. However, if you prefer to write the address is:

The Manager
Holden's Customer Assistance Services
GPO Box 548D
Melbourne, 3001

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both Private and Business
- Selling dealership name and address
- Servicing dealership name and address
- Vehicle model
- Vehicle identification number (VIN)
- Date of purchase
- Current odometer reading

Most of this information will be found on the vehicle identification certificate, located inside the front cover of this book.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

# NSW Metropolitan Dealers

*(Note: Dealership names and locations listed are effective at the time of printing. These may change from time to time without notice.)*

ARNCLIFFE
**Suttons Motors (Arncliffe) Pty. Ltd.,**
93 Princes Highway

ASHFIELD
**Muirs Motors (Ashfield) Pty. Ltd.,**
252 Parramatta Road

BALGOWLAH
**Boyded Balgowlah**
164 Condamine Street

BAULKHAM HILLS
**Tony Packard Holden**
Cnr. Victoria Avenue & Windsor Road

BLACKTOWN
**West City Holden**
120-128 Sunnyholt Road

CABRAMATTA
**Ron Hodgson Holden**
266 Hume Highway

CAMPBELLTOWN
**Paul Wakeling Holden**
Cnr Blaxland & Campbelltown Rds

CHULLORA
**Suttons Motors (Chullora) Pty. Ltd.,**
Cnr. Hume Highway & Waterloo Road

CROW'S NEST
**J. N. Caldwell (Holdings) Pty. Ltd.,**
1 Alexander Street

DEE WHY
**Barry Smith Holden**
Cnr. May and Mooramba Roads

GORDON
**Sundell Holden**
Cnr. Pacific Hwy & McIntyre St

HOMEBUSH
**Suttons Motors (Homebush)**
112 Parramatta Road

HOMEBUSH
**Gilbert & Roach Pty. Ltd.,**
167-173 Parramatta Road

KINGSFORD
**John Pelligrini Holden**
263-271 Anzac Parade

LAKEMBA
**Nash Holden**
1018 Canterbury Road

LIVERPOOL
**A. C. McGrath & Co. Pty. Ltd.,**
Cnr. Castlereagh St. & Hume Highway

MIRANDA
**Greg Ball Holden**
1-3 Kiora Road

NEWPORT
**Mobil-Newport**
Cnr. Barrenjoey Road & Seaview Avenue

PADSTOW
**Purnell Bros. Holden**
19 Davies Road

PARRAMATTA
**Boyded Parramatta**
65 Church Street

PENNANT HILLS
**Les Vagg Holden**
351-355 Pennant Hills Road

PENRITH
**Lance Motors (Penrith) Pty. Ltd.**
39-47 Henry Street

ROCKDALE
**Boyded Rockdale**
571 Princes Highway

RYDE
**Hunter Holden**
603-605 Victoria Road

ST. MARY'S
**Lance Motors Pty. Ltd.,**
Cnr. Glossop & Harris Streets

WAITARA
**Sutton Motors**
90 Pacific Highway

WARRAWONG
**Dwyers Warrawong**
King Street

WINDSOR
**Erichsen Motors**
122 George Street

# NSW Country Dealers

Consult your local Yellow Pages under Motor Cars — New for Addresses and Telephone Numbers.

- ADELONG
- ALBURY
- ARDLETHAN
- ARMIDALE
- BALLINA
- BARADINE
- BARHAM
- BATHURST
- BEGA
- BELMONT
- BELLINGEN
- BLAYNEY
- BOMBALA
- BOURKE
- BOWRAL
- BREWARRINA
- BROKEN HILL
- CANOWINDRA
- CARDIFF
- CASINO
- CESSNOCK
- COBAR
- COFF'S HARBOUR
- COLLARENEBRI
- COOLAMON
- COOMA
- COONABARABRAN
- CONAMBLE
- COOTAMUNDRA
- COROWA
- COWRA
- CROOKWELL
- CULCAIRN
- DENILIQUIN
- DORRIGO
- DUBBO
- EDEN
- FINLEY
- FORBES
- GILGANDRA
- GLEN INNES
- GLOUCESTER
- GOSFORD
- GOULBURN
- GRAFTON SOUTH
- GRENFELL
- GRIFFITH
- GULARGAMBONE
- GUNDAGAI
- GUNNEDAH
- GUNNING
- GUYRA
- HARDEN
- HAY
- HOLBROOK
- INVERELL
- JERILDERIE
- JUNEE
- KANDOS
- KATOOMBA
- KEMPSEY
- KIAMA
- KURRI KURRI
- KYOGLE
- LAKE CARGELLIGO
- LEETON
- LISMORE
- LITHGOW
- MACKSVILLE
- MACLEAN
- MAITLAND
- MILTON
- MOREE
- MORUYA
- MUDGEE
- MULLUMBIMBY
- MUNGINGI
- MURWILLUMBAH
- MUSWELLBROOK
- NARRABRI
- NARRANDERA
- NARROMINE
- NEWCASTLE
- NOWRA
- NYNGAN
- ORANGE
- PARKES
- PEAK HILL
- PORT MACQUARIE
- QUIRINDI
- SCONE
- SPRINGWOOD
- TAMWORTH
- TAREE
- TEMORA
- TENTERFIELD
- TORONTO
- TUMBARUMBA
- TUMUT
- TWEED HEADS
- WAGGA
- WALCHA
- WALGETT
- WALLA WALLA
- WARIALDA
- WARILLA
- WARREN
- WELLINGTON
- WEST WYALONG
- WINGHAM
- WOLLONGONG
- WOODENBONG
- WYONG
- YASS
- YOUNG

## AUSTRALIAN CAPITAL TERRITORY

BRADDON
**Beazley & Bruce Pty. Ltd.,**
44 Mort Street

PHILLIP
**Commonwealth Motors Pty. Ltd.,**
158 Melrose Drive

BELCONNEN
**Gerald Slaven Holden**
Josephson Street

# Victorian Metropolitan Dealers

BERWICK
**Neil & Ross Neilson**
755 Princes Highway

BRAYBROOK
**Kevin Dennis Holden**
272 Ballarat Road

BUNDOORA
**Watson Holden**
413 Grimshaw Street

BURWOOD
**Dustings Burwood**
1200 Toorak Road

CAULFIELD
**Booran Holden**
1049 Glenhuntly Road

CHELSEA
**Harrison Holden**
370 Nepean Highway

CHELTENHAM
**Balmoral Holden**
1212 Nepean Highway

DANDENONG
**Patterson Cheney Pty. Ltd.,**
200 Cheltenham Road

DANDENONG
**Graeme Blanchard Holden**
Princes Highway

DONCASTER
**Lance Dixon Holden**
601 Doncaster Road

ELSTERNWICK
**Reg Hunt Motors**
77 Nepean Highway

ESSENDON
**Preston Motors (Essendon) Pty. Ltd.,**
205-211 Keilor Highway

FAWKNER
**Mantello Holden**
1263 Sydney Road

FERNTREE GULLY
**Neilson Holden F.T.G.**
980 Burwood Highway

FOOTSCRAY
**Alan Mance Holden**
435 Barkly Street

FOOTSCRAY
**Patterson Cheney Pty. Ltd.,**
130 Moreland Street

FRANKSTON
**Noel Gould Holden**
140 Dandenong Road

GEELONG
**R. & B. Smith Pty. Ltd.,**
510 Moorabool Street

GEELONG
**Winter & Taylor (Sales) Pty. Ltd.,**
23 Cavendish Street

GLEN WAVERLEY
**Geoff Brady Holden**
565-577 Springvale Road

HASTINGS
**Westernport Holden**
762 Flinders Road

LILYDALE
**Noel Dight Holden**
Main Street

MORNINGTON
**Peninsula Holden**
Cnr. Nepean Highway & Tyabb Road

OAKLEIGH
**Garry & Warren Smith Pty. Ltd.,**
1575 Dandenong Road

RINGWOOD
**Patterson Cheney Holden**
45-57 Maroondah Highway

SOUTH MELBOURNE
**Patterson Cheney Holden**
132 Sturt Street

WERRIBEE
**Ballan Holden**
Princes Highway

WEST MELBOURNE
**Reg Hunt Motors**
577 King Street

# Victorian Country & Tasmanian Dealers

Consult your local Yellow Pages under Motor Cars — New for Addresses and Telephone Numbers.

- ALEXANDRA
- ARARAT
- BACCHUS MARSH
- BAIRNSDALE
- BALLARAT
- BENALLA
- BENDIGO
- BIRCHIP
- BOORT
- CAMPERDOWN
- CASTERTON
- CASTLEMAINE
- CHARLTON
- COBRAM
- COHUNA
- COLAC
- COLERAINE
- CORRYONG
- DAYLESFORD
- DERRINALLUM
- DIMBOOLA
- DONALD
- ECHUCA
- EUROA
- FOSTER
- HAMILTON
- HOPETOUN
- HORSHAM
- KANIVA
- KERANG
- KOOWEERUP
- KORUMBURRA
- KYABRAM
- KYNETON
- LEONGATHA
- MAFFRA
- MANSFIELD
- MARYBOROUGH
- MILDURA
- MINYIP
- MIRBOO NORTH
- MOE
- MORTLAKE
- MURRAYVILLE
- NATHALIA
- NHILL
- NULLAWIL
- ORBOST
- PORTLAND
- QUAMBATOOK
- ROCHESTER
- RUTHERGLEN
- SALE
- SEA LAKE
- SEYMOUR
- SHEPPARTON
- STAWELL
- SWAN HILL
- TALLANGATTA
- TIMBOON
- TRARALGON
- UNDERBOOL
- WANGARATTA
- WARBURTON
- WARRACKNABEAL
- WARRAGUL
- WARRNAMBOOL
- WODONGA
- WONTHAGGI
- YARRAM
- YARRAWONGA

## TASMANIA

HOBART
**Motors Pty. Ltd.,**
179 Macquarie Street

BURNIE
**Motors Pty. Ltd.,**
84-89 Marine Terrace

DEVONPORT
**Motors Pty. Ltd.,**
628 Victoria Parade

KING ISLAND
**Island Motors Pty. Ltd.,**
Netherby Road, Currie

LAUNCESTON
**Motors Pty. Ltd.,**
93 Elizabeth Street

SMITHTON
**Motors Pty. Ltd.,**
16 Nelson Road

ULVERSTONE
**Motors Pty. Ltd.,**
99 Reibey Street

# Queensland Dealers

## Metropolitan

ALBION
**Bill Harrison Car Sales**
Frodsham Street & Crosby Road

ASPLEY
**Zupps (Aspley) Pty. Ltd.,**
1442 Gympie Road

BEENLEIGH
**Crest Holden**
81-83 Logan River Road

IPSWICH
**Zupps Holden**
246 Brisbane Road, Booval

MOOROOKA
**John Sivyer Holden**
1060 Ipswich Road

MT. GRAVATT
**Zupps Motors Pty. Ltd.,**
1310 Logan Road

NEWSTEAD
**Eagers Retail Pty. Ltd.,**
95 Breakfast Creek Road

NUNDAH
**Eagers (Northside)**
1319 Sandgate Road

PETRIE
**North Pine Motors Pty. Ltd.,**
Gympie Road

REDCLIFFE
**Village Holden**
425 Elizabeth Street

SPRINGWOOD
**Motorama Holden**
Pacific Highway & Brennan Street

WINDSOR
**Leach Holden**
143 Newmarket Road

WOOLLOONGABBA
**Armstrong Holden**
73 Ipswich Road

WYNNUM
**Doug Barton Holden**
200 Tingal Road

## Country

Consult your local Yellow Pages under Motor Cars — New for Addresses and Telephone Numbers.

- ATHERTON
- AUGATHELLA
- AYR
- BEAUDESERT
- BEERWAH
- BILOELA
- BLACKWATER
- BOWEN
- BUNDABERG
- CABOOLTURE
- CAIRNS
- CALOUNDRA
- CAPELLA
- CHARLEVILLE
- CHARTERS TOWERS
- CHINCHILLA
- CLERMONT
- CLONCURRY
- CROWS NEST
- CUNNAMULLA
- DALBY
- EMERALD
- GATTON
- GAYNDAH
- GLADSTONE
- GOONDIWINDI
- GYMPIE
- HUGHENDEN
- INGHAM
- INNISFAIL
- JULIA CREEK
- KILCOY
- KINGAROY
- LAIDLEY
- LONGREACH
- MACKAY
- MAREEBA
- MARYBOROUGH
- MITCHELL
- MORANBAH
- MOURA
- MT. ISA
- MURGON
- NAMBOUR
- NANANGO
- NOOSA HEADS
- PROSERPINE
- QUILPIE
- ROCKHAMPTON
- ROMA
- SOUTHPORT
- SPRINGSURE
- STANTHORPE
- ST. GEORGE
- TARA
- THEODORE
- TOOWOOMBA
- TOWNSVILLE
- TULLY
- WARWICK
- WINTON
- YULEBA

# W.A. Dealers

## Metropolitan

BELMONT
**Major Motors**
225 Great Eastern Highway

CANNINGTON
**Brian Gardner Holden**
1308 Albany Highway

FREMANTLE
**Shacks Holden**
64 Queen Victoria Street

GOSNELLS
**Lance Gibbons Holden**
2325 Albany Highway

MANDURAH
**Estuary Holden**
1 Gisbon Street

MELVILLE
**Melville Motors Pty. Ltd.,**
532-536 Canning Highway

MIDLAND
**John Goldie Holden**
161 Great Eastern Highway

MORLEY
**Metro Motors Pty. Ltd.,**
212 Walter Road

NAVAL BASE
**Shacks Cockburn**
15 Rockingham Road

OSBORNE PARK
**North City Holden**
Cnr. Scarborough Beach Road
& Harborne Street

PERTH
**City Motors**
505 Newcastle Street

VICTORIA PARK
**Young's Holden**
529 Albany Highway

WANNEROO
**Phoenix Holden**
316 Berriman Drive

## Country

Consult your local Yellow Pages under Motor Cars — New for Addresses and Telephone Numbers.

- ALBANY
- AUGUSTA
- BEVERLEY
- BOYUP BROOK
- BRIDGETOWN
- BROOKTON
- BRUCE ROCK
- BUNBURY
- BUSSELTON
- CARNAMAH
- CARNARVON
- COLLIE
- CRANBROOK
- DALWALLINU
- ESPERANCE
- GERALDTON
- GNOWANGERUP
- KALGOORLIE
- KARRATHA
- KATANNING
- KELLENBERRIN
- KOJONUP
- MANJIMUP
- MERREDIN
- MOORA
- MORAWA
- MT. BARKER
- NAREMBEEN
- NORTHAM
- PINJARRA
- PORT HEDLAND
- WAGIN
- WYALKATCHEM

# S.A. & N.T. Dealers

## S.A. Metropolitan

ADELAIDE
**City Holden**
203-221 Grenfell Street

ADELAIDE
**United Motors Retail Ltd.,**
72 Franklin Street

ELIZABETH
**Peter Page Holden**
Elizabeth Way

GLENELG
**John H. Ellers Pty. Ltd.,**
282 Brighton Road

MALVERN
**Claridge Motors Pty. Ltd.,**
361-367 Unley Road

MILE END
**United Motors Co. Pty. Ltd.,**
71 West Beach Road

PORT ADELAIDE
**Smith Motor Co. Pty. Ltd.,**
171 Commercial Road

REYNELLA
**Brian Gill Holden**
49-59 Main South Road

VALLEY VIEW
**Plaza Holden**
817-839 North East Road

## S.A. Country

Consult your local Yellow Pages under Motor Cars — New for Addresses and Telephone Numbers.

- BALAKLAVA
- BERRI
- BURRA
- CEDUNA
- CLARE
- CLEVE
- CRYSTAL BROOK
- CUMMINS
- GAWLER
- JAMESTOWN
- KADINA
- KEITH
- KINGSCOTE
- KINGSTON
- LAMEROO
- LOXTON
- MAITLAND
- MALLALA
- MENINGIE
- MILLICENT
- MT. BARKER
- MT.GAMBIER
- MURRAY BRIDGE
- NARACOORTE
- PORT AUGUSTA
- PORT LINCOLN
- PORT PIRIE
- RENMARK
- STRATHALBYN
- TANUNDA
- TUMBY BAY
- VICTOR HARBOUR
- WAIKERIE
- WHYALLA
- WUDINNA
- YANKALILLA
- YORKETOWN

## N.T.

ALICE SPRINGS
**Kittle Bros. (Alice Springs) Pty. Ltd.,**
Cnr. Wills Terrace & Railway Terrace

DARWIN
**Suttons Motors (Darwin) Pty. Ltd.,**
21-25 Stuart Highway

CHAPTER 6

# Basic Maintenance

As well as taking your car to be serviced (refer to page 80), there are a few inspections that the owner (or nominee) is required to make. These checks are simple once you know how, and are necessary to keep your car in good, safe, working order.

| | | |
|---|---|---|
| page 65 | Raising and Securing the Bonnet | |
| page 65 | Location for Checks | |
| page 66 | **ENGINE COOLANT** level check | weekly |
| page 67 | **ENGINE OIL** level check | weekly |
| page 68 | **BRAKE** fluid level check | weekly |
| page 69 | **BATTERY** fluid level check | weekly |
| page 70 | Topping up the **WASHER** fluid | weekly |
| page 71 | **TYRE AIR PRESSURE** check | weekly |
| page 74 | Miscellaneous Checks | regularly |
| page 75 | **BULB** Replacement | |
| page 78 | **AUTOMATIC TRANSAXLE** Fluid level check | weekly |

**CAUTION:** Avoid inhaling exhaust gases because they contain carbon monoxide, which is a dangerous gas that can cause unconsciousness and is potentially lethal.

**DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.**

**DO NOT SIT IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING.**

If at any time you think exhaust fumes are entering the car, have the cause determined and corrected as soon as possible.

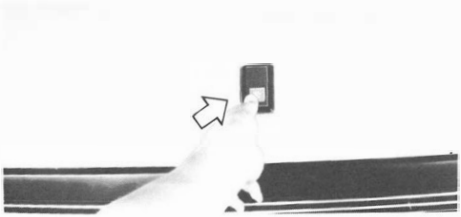
# Bonnet

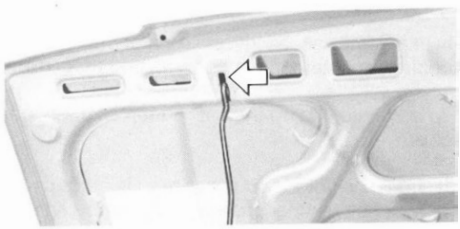
To open the bonnet, pull the release lever at the lower right side of the instrument panel. This allows the bonnet to release but it is prevented from opening by the safety catch. To open completely, lift the bonnet while pushing the safety lock (centre, front of bonnet).

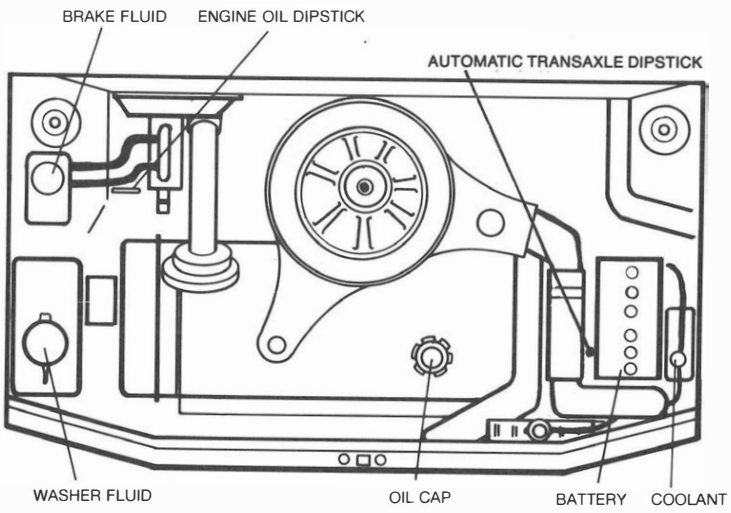
Then hold the bonnet open with the prop rod, secured in the slot provided.

To shut the bonnet, lift it up slightly, release and stow the prop rod and lower the bonnet gently. Push the front part of the bonnet down and it will lock.

Always check to make certain bonnet is properly secured. If necessary, check that release catch below instrument panel is pushed in to its normal position.



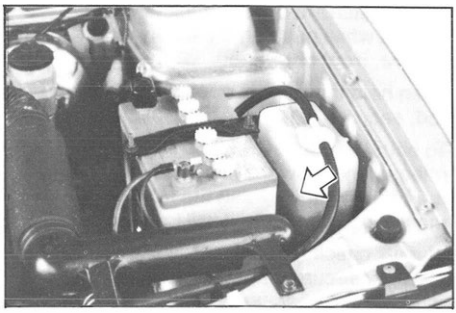




# Checking Engine Coolant Level

The coolant level should be checked weekly — by looking at the level in the plastic container (coolant reservoir). When the bonnet is lifted, the container is on the passenger's side of the engine compartment, near the battery.

When the engine is cold, the level should be at or above the LOW mark. After the car has been driven and the engine is at normal operating temperature, the level should be somewhere between half full and the FULL mark.



If coolant needs to be added, first premix a solution of ⅔ water and ⅓ coolant (meeting Holden's specification no HN 1897). The coolant can be purchased as follows:

1 litre — part no M39288
4 litre — part no M39338

In emergency situations, plain water may be used temporarily, until the correct Holden's coolant is obtained (as soon as possible) from the nearest GM-H Dealer.

To add fluid, flip up the cap on top of the container, add the premixed solution and secure the cap.

It should be noted that the above Holden's coolant contains special corrosion inhibitors, giving greater hot weather protection by increasing the boiling point and also provides cold weather protection down to -16°C (provided the correct concentration is maintained).

**CAUTION: Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.**

Refer to page 46 if engine overheats.

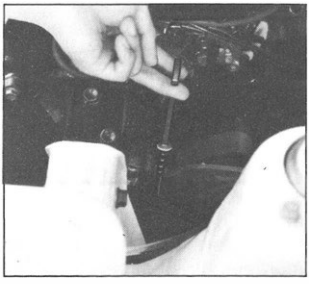
# Checking Engine Oil Level

The engine oil must be maintained at the right level to assure proper lubrication of your car's engine. It is the owner's responsibility to check the oil level at regular intervals. The best time to check the engine oil level is when the oil is warm, such as during refuelling stops. During the running-in period you should check the oil level more frequently since oil consumption may be higher.

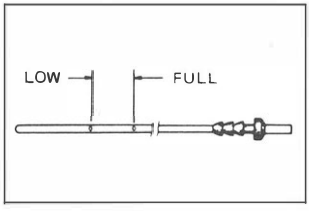
To check the engine oil level accurately, the car must first be on level ground. After stopping the engine, wait a few minutes for the oil to settle.

The level is checked from the "dipstick".

Remove the dipstick and wipe it clean with clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

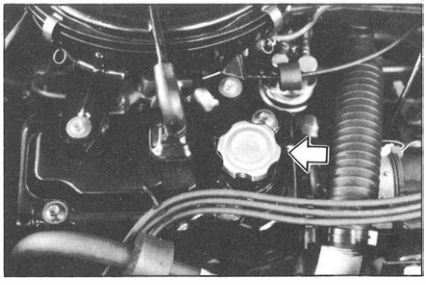


The oil level should be maintained between the two marks, neither going above the FULL mark nor under the LOW mark. Remember to reinsert the dipstick firmly after taking the reading.




If you need to add oil, use SF grade engine oil 20W/40 (or 20W/50 in high temperature areas).

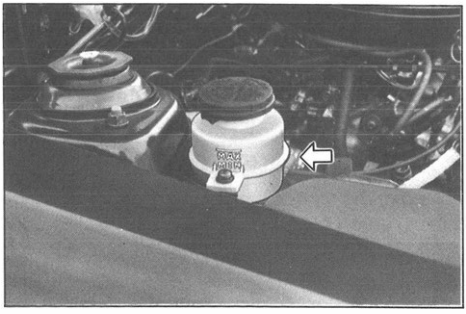
To add oil, remove the oil cap and pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil, if now correct, screw the cap back on tightly and replace the dipstick.



If you check the oil level when the oil is cold do not run the engine first. The cold oil will not drain back into the oil pan fast enough to give a true oil level reading.

NOTE: If oil has to be added often, there may be a problem or leak — and you should see your GM-H Dealer.

# Checking Brake Fluid Level



The fluid level in the master cylinder should be checked weekly.

When the bonnet is lifted, the "see through" master cylinder is on the driver's side of the engine compartment.

The fluid level should be between the MIN and MAX level markings on the outside of the master cylinder.

If the fluid level is between these markings, do not remove the master cylinder cap. Remember, that brake fluid exposed to the atmosphere will quickly absorb moisture, which in turn lowers the performance of the fluid as well as increasing risk of corrosion of brake parts.

If fluid needs to be added, turn the cap anticlockwise until a stop is felt, then unclip and lift up. Top up with a heavy duty brake fluid SAE J1703 or DOT 3.

If the master cylinder requires constant topping up, it could indicate that a malfunction exists, in which case you should immediately see your GM-H Dealer.

# Battery Fluid Level

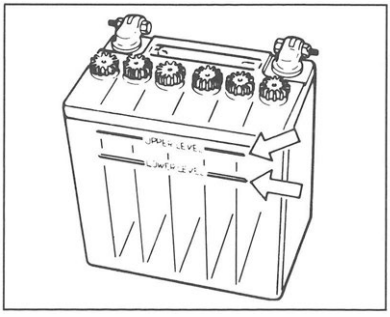
The level of battery fluid will be checked when you take your "car in for a service". However, if the car is operated in hot temperatures or at constant, high speed use, the battery fluid level should be checked every two months.

When the bonnet is lifted, the "see through" battery is on the passenger's side of the engine compartment.

When checking the level, make sure the engine is not running.

NOTE: "Rocking" the car slightly will make the level more visible.

The battery is divided into six cells, with individual caps on top. Each cell must have the fluid level reading between the UPPER and LOWER markings. If any of the cells reads below the LOWER mark unscrew its cap and add distilled water to bring to UPPER mark.



**CAUTION:**

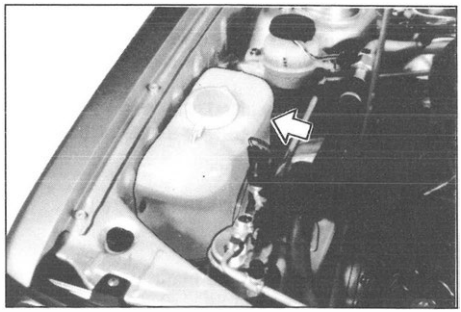
**Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times and never smoke near a battery.**

**Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with lots of water. In case of eye contact, flush with lots of water and contact a doctor immediately.**

**Take care with all metal objects and tools including items you may wear (e.g. jewellery, rings and metal watchbands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.**

Refer to page 44 for emergency starting when battery is flat.

# Washer Fluid Level



The washer fluid is constantly used, so the level should be checked weekly.

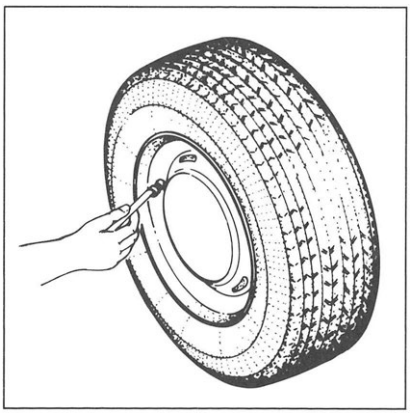
When the bonnet is lifted, the plastic container is visible on the driver's side of the engine compartment. This container supplies water to both the front and rear washers.

Maintain the fluid at the level indicated on the outside of the container. After filling, make sure that the cap is secured.

For a crystal clear view the correct amount of Optikleen Washer Solvent (part no M37933) can be added. Do not use ordinary soap or detergent as these not only foam up but will also damage the wiper rubbers.

**CAUTION: Damage will result if the washers are operated without fluid in the washer tank. Never use engine anti-freeze as a substitute, or paint damage will result.**

# Checking Tyre Air Pressure



Checking the air pressure of your tyres (including the spare) ensures your SAFETY, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your car will handle at its best — CHECK THE PRESSURES WEEKLY. For constant long distance or rough road travelling, daily checking is recommended.

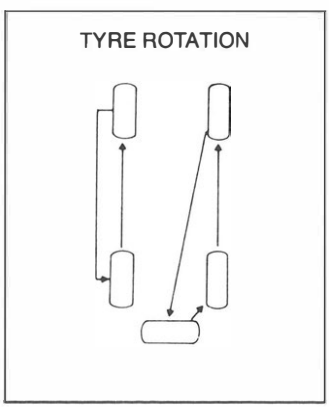
Refer to the tyre placard on the right, door-lock pillar.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the TYRES ARE COLD (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a TYRE PRESSURE GAUGE to check the tyres — simply looking at the tyres is not sufficient.

Remember to put back any valve DUST CAPS or EXTENSIONS if so equipped. This stops dirt and moisture from fouling the valves.

## Tyre Inspection and Rotation




Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

For longer tyre life, you should have the tyres inspected (and rotated if required) at the intervals specified in the Holden's Maintenance Plan.

Your GM-H Dealer will be able to diagnose any unusual signs of wear and can also balance the wheels and tyres for you. If the tyres are rotated, it is recommended that the balance be checked at the same time.

If no abnormal or uneven wear is evident, tyres need not be rotated.

## Tyre Replacement and Repair

**CAUTION: Do not mix different tyre construction types, such as radial and cross ply, on your vehicle except in emergencies, because your car's handling could be affected and may result in loss of control.**

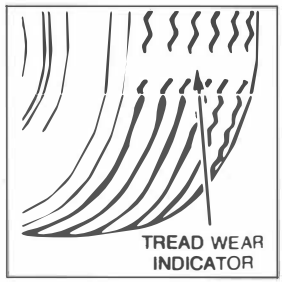
When replacing tyres you should use the same size, load rating and construction type as the original tyres on your car. Refer to tyre placard on the right, door-lock pillar for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, vehicle ground clearance and tyre or tyre chain clearance to the body or chassis.

Tyres with a higher speed rating and/or with a maximum load rating in excess of that listed in the tyre placard for tyre size listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread indicators appear or the cord or fabric is showing. The original equipment tyres fitted to your vehicle incorporate built-in tread wear indicators which assist in determining when the tyres have worn to the point of needing replacement. (See illustration.) In the interests of safety, replacement should not be delayed.
2. The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.




If in doubt about the extent of damage to the tyre have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacturer's recommendations.

**CAUTION: Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds; therefore their use is not recommended under these driving conditions.**

# Tyres

## Alignment and Balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the car to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your GM-H Dealer.

## Wheel Replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your car.

**NOTE:** Replacing your factory fitted wheels and tyres with non specified wheels and tyres may void your new vehicle warranty as well as your motor vehicle insurance policy.

## Tyre Traction

**CAUTION: A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.**

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydro-planing, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speed levels during rainstorms or when roads are slushy and if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

## Heavy Treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your GM-H Dealer, who will be pleased to advise.

# Miscellaneous Checks

When carrying out the checks already described inspect the engine for oil leaks. If leaks are evident you should consult your GM-H Dealer.

The following checks should be regularly done to ensure proper safety and dependability of your car.

**CHECK:**

— that all exterior lights are working and that their appropriate interior indicators light up when in operation;

— mirrors and glass are clean and not scratched;

— the aim of water on screen and condition of wipers;

— demister operates;

— horn works;

— all seat belt condition and operation (give it a sharp tug to make sure that it will "lock" if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

THE USE OF PARTS, ADDITIVES AND/OR TREATMENTS OTHER THAN THOSE MARKETED BY HOLDEN'S MAY BE DETRIMENTAL TO YOUR VEHICLE'S PERFORMANCE AND SAFETY AND MAY VOID YOUR NEW VEHICLE WARRANTY.

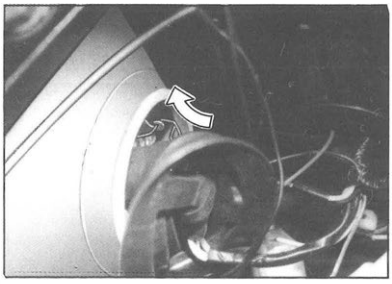
Holden's also publishes various service manuals which are available from your Dealer or from:–

Stan H. Earle,
46 Isabella Street,
Moorabbin, Vic., 3189.
Telephone 555 6555

# Bulbs

## Headlights

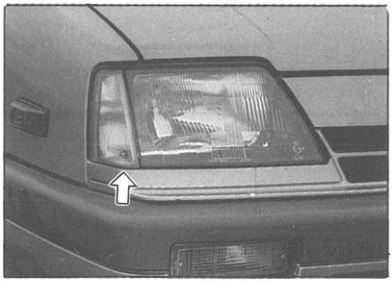
Open the engine hood. Remove the rubber from the inside and then unhook the lever (indicated with arrow) and the bulb can be taken out.



**CAUTION: Adjustment of the headlight beam is necessary after replacing the headlight unit. If you have performed the replacement work yourself, make sure you take the vehicle to your authorized GM-H Dealer for proper adjustment.**

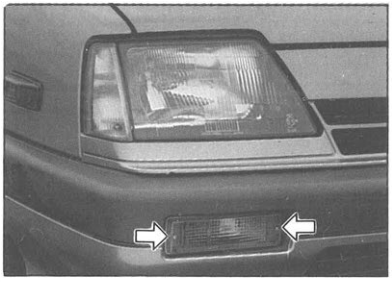
## Parking Lights

Undo the screw holding in the lens and remove by pulling upwards and out. The bulb pulls straight out. A new bulb is installed by performing the same action in reverse order.



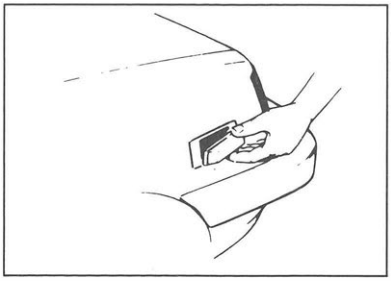
## Front Turn Signal

Undo the two screws holding in the lens and remove. Remove bulb by pushing in, then turning counterclockwise. A new bulb is installed by performing the same action in reverse order.



## Side Turn Signal Light

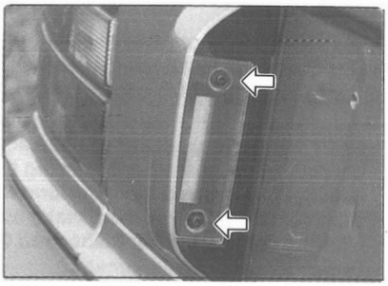
Pull out the lens by hand. The bulb can be removed by pushing in and turning counterclockwise. A new bulb is installed by performing the same actions in reverse order.



# Bulbs

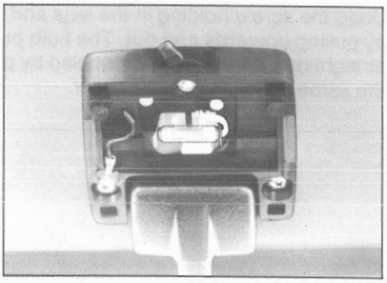
## Licence Plate Light

Undo the two screws holding in the lens and remove. The bulb can be removed by pushing in and turning counterclockwise. A new bulb is installed by performing the same actions in reverse order.



## Interior Light

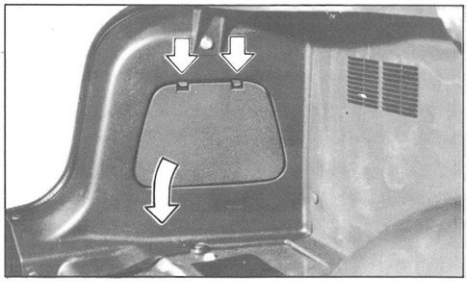
Pull down on the rear part of lens and remove. The bulb can be removed by simply pulling it down. When replacing the bulb, make sure that the contact springs are holding the bulb securely.

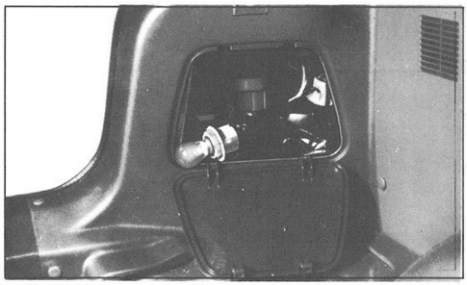


# Bulbs

## Rear Turn Signals, Stop and Tail Lights, Reverse Lights

To remove these bulbs, first open the rear service lid by pushing on the stopper tabs as shown in the photo. Remove the socket by turning it counterclockwise and remove the bulb from the socket by twisting it counterclockwise while pushing. Restore the removed parts in the reverse sequence of removal.





# Automatic Transaxle Fluid Level

The level of fluid in the automatic transaxle should be checked weekly by looking at the fluid level on the dipstick. Refer to the diagram on page 65 for location. Dirt in the transaxle can cause breakdowns, so be careful when checking or adding fluid.

The level should always be checked when the fluid Is warmed up to normal operating temperature (after the car has been driven for at least 15 minutes).

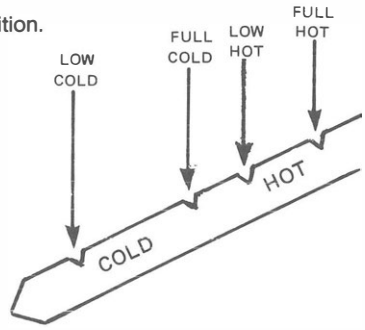
Place the car on level surface and leave the engine idling.

Apply the park brake.

Move T-bar selector through each gear, ending in "P" position.

Remove the dipstick, wipe it clean with a clean cloth or paper and reinsert it fully. Now remove it again, and read the fluid level.

The correct level is between the two marks on either side of the word 'HOT'. The topping up quantity between these two marks is 0.3 litres. Be careful not to add too much.




If adding fluid, use only *Dexron II Automatic Transmission Fluid. Add the fluid in the same opening as the dipstick is stored in, and wait 1 minute for the oil to settle. Again check the level with the dipstick and add further oil if necessary. Remember to always replace the dipstick.

If fluid has to be added often, there may be a problem or leak and you should see your GM-H dealer.

**NOTE:** The cold marking on the dipstick should only be used when initially filling the transaxle after the fluid has been completely drained. When checking 'cold', start the engine and run at idle for 5 minutes. Move the T-bar through the selector range and back to "P", then check the fluid level using the 'cold' markings on the dipstick. The above cold level check is strictly temporary. Therefore a final check, using the hot method described previously should be done after the car has been driven for at least 15 minutes.

*Dexron II is a registered trademark of General Motors Corporation.

CHAPTER 7

# Services


page 80 — When to have the Services Carried Out
81 — Extreme Operating Conditions
82 — Maintenance Schedule
— What is Actually Performed at Each Service
84 — Suggested Times for Each Service
85 — 1,000 Km Inspection and Adjustment
87 — 10,000 Km or 6 Months Service
89 — 20,000 Km or 12 Months Service
91 — 30,000 Km or 18 Months Service
93 — 40,000 Km or 24 Months Service
95 — 50,000 Km or 30 Months Service
97 — 60,000 Km or 36 Months Service
99 — 70,000 Km or 42 Months Service
101 — 80,000 Km or 48 Months Service
103 — 90,000 Km or 54 Months Service
105 — 100,000 Km or 60 Months Service
107 — 110,000 Km or 66 Months Service
109 — 120,000 Km or 72 Months Service
111 — Notice of Name/Address Ownership Change

# Service Intervals

When it comes to service, remember that your GM-H Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your dealer invites you to return for all of your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your Barina cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

- 1,000 km or 1 month
- 10,000 km or 6 months
- 20,000 km or 12 months
- 30,000 km or 18 months
- 40,000 km or 24 months
- 50,000 km or 30 months
- 60,000 km or 36 months
- 70,000 km or 42 months
- 80,000 km or 48 months
- 90,000 km or 54 months
- 100,000 km or 60 months
- 110,000 km or 66 months
- 120,000 km or 72 months

The one month or 1,000 kilometres service will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another GM-H Dealer provided you have a letter of introduction from the Selling Dealer. Your Dealer will supply the necessary letter of introduction upon request.

The services shown in this schedule between 10,000 km and 120,000 km are to be performed after 120,000 km at the same intervals.

**NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defects in material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, clutch, parking brake etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.**

**Failure to have proper maintenance services carried out by an Authorised GM-H Dealer or Service Dealer may void your new vehicle warranty.**

**It is strongly recommended that you read the "New Vehicle Warranty" on page 50, so that you are conversant with your entitlements.**

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important as it will not only assist in the determination of Warranty Claims, but enhance the value of the vehicle whenever resale is contemplated.

# Extreme Operating Conditions

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

**NOTE:** The extra services listed below should only be used if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month (or 1,500 kilometres) under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your GM-H Dealer.

| | Engine Oil | Engine Oil Filter | Engine Air Cleaner Element | Exhaust System | Brake, Clutch and Fuel Lines, | All Suspension and Steering Components and Driveshafts | Rear Drum Brakes | Auto Transaxle Fluid |
|---|---|---|---|---|---|---|---|---|
| Dust, dirt, loose road metal | X | X | X | X | X | X | X | |
| Muddy and wet areas | | | | X | X | X | | |
| Repeated short trips in very cold weather | X | | | | | | | |
| Engine stop-start, excessive idling or low speed operation as experienced in some inner city driving. | X | | | | | X | X | |

# Maintenance Schedule

| Use odometer reading or months, whichever occurs first | x 1000 km | 1 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or months | | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| **ENGINE** | | | | | | | | | | | | | | |
| Check condition of water pump belt. Retension or replace as necessary. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Check engine valve clearances. Adjust if necessary. | | | | X | | X | | X | | X | | X | | X |
| Change engine oil. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Change engine oil filter. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Inspect cooling system hoses and connections for leakage, damage & tightness. | | X | | X | | X | | X | | X | | X | | X |
| Inspect exhaust system for leakage, damage & security. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Change engine coolant. | | | | | | X | | | | X | | | | X |
| Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. | | | X | | X | | X | | X | | X | | X | |
| **IGNITION SYSTEM** | | | | | | | | | | | | | | |
| Replace spark plugs. | | | | X | | X | | X | | X | | X | | X |
| Inspect condition of distributor cap & rotor. Clean inside of cap. Check operation of advance mechanism. | | | | X | | X | | X | | X | | X | | X |
| Inspect condition and check resistance of all high tension leads. | | | | X | | X | | X | | X | | X | | X |
| Check ignition timing. | | | | X | | X | | X | | X | | X | | X |
| **FUEL SYSTEM** | | | | | | | | | | | | | | |
| Check operation of carburettor choke system. | | | | X | | X | | X | | X | | X | | X |
| Check condition of air cleaner element. Clean or replace as necessary. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Check engine idle speed and idle mixture. Adjust if necessary. | | X | X | X | | X | | X | | X | | X | | X |
| Inspect fuel tank, lines and connections for leakage, damage and tightness. Inspect condition of fuel tank cap gasket. | | X | | | | X | | | | X | | | | X |
| Replace fuel filter. | | | | | | X | | | | X | | | | X |

CHAPTER 7
SERVICES

# Maintenance Schedule

| Use odometer reading or months, whichever occurs first | x 1000 km | 1 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or months | | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| **EMISSION CONTROL SYSTEM** | | | | | | | | | | | | | | |
| Check operation of fuel cut off solenoid valve. | | | | | | X | | | | X | | | | X |
| Check operation of thermostatic control on air cleaner. | | | | | | X | | | | X | | | | X |
| Check operation of P.V.C. valve. | | | | | | X | | | | X | | | | X |
| Check operation of pulse air control system. | | | | | | X | | | | X | | | | X |
| **CHASSIS AND BODY** | | | | | | | | | | | | | | |
| Check clutch pedal freeplay. Adjust if necessary. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Check transaxle oil level &inspect for leaks. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Change manual transaxle oil. | | | | | X | | | X | | | X | | | X |
| Change auto. transaxle oil. | | @ 160,000 km or 96 months | | | | | | | | | | | | |
| Replace auto. transaxle fluid hoses (inlet & outlet). | | | | | | | | | | X | | | | |
| Lubricate gear shift control lever seat and shaft bushings. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Inspect brake discs & pads for thickness wear and damage. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Inspect brake drums & shoes for wear and damage. | | | | X | | X | | X | | X | | X | | X |
| Change brake fluid. | | | | | | X | | | | X | | | | X |
| Check parking brake for correct operation and travel. Inspect cable for damage. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Inspect all brake hoses, pipes & connections for leakage, damage & security. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Inspect drive shaft boots for leaks, damage and attachment. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Lubricate right side drive axle shaft nipple. | | | | | | X | | | | X | | | | X |
| Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. | | | X | X | X | X | X | X | X | X | X | X | X | X |

# Maintenance Schedule

| Use odometer reading or months, whichever occurs first | x 1000 km | 1 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | or months | | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| **CHASSIS & BODY Cont.** | | | | | | | | | | | | | | |
| Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lubricate door hinge assemblies. | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Check operation of all lights. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| **ROAD TEST** | | | | | | | | | | | | | | |
| Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Check that body, wheels and power-train are free from abnormal noise and vibration. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Check all instruments and warning lights are functioning properly. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Check seat belt emergency locking mechanism is functioning properly. | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SUGGESTED LABOUR TIME – HOURS | | | 1.4 | 2.3 | 1.4 | 3.0 | 1.4 | 2.4 | 1.4 | 3.0 | 1.5 | 2.3 | 1.4 | 3.1 |
| Add for auto. transaxle | | | | | | | | | | 0.3 | | | | |

## 1000 Kilometre Inspection and Adjustment

This vehicle has been thoroughly checked in accordance with the 1,000 kilometre inspection and adjustment.

Dealer .....

Service Manager's Signature .....

Date ..... Odometer Reading .....

## 1000 Kilometre Inspection and Adjustment

GMH QUALITY SERVICE & PARTS

This coupon should not be removed until the vehicle is presented for service.

Owner's Name Mr. / Mrs. / Miss .....

Address .....

Town & State ..... Postcode .....

Reg. No. ..... Model Name .....

V.I.N. ..... Eng. No. .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

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This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's Signature .....

**This Inspection & Adjustment will be carried out without charge to the owner except for any lubricants used.**

PTO

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect cooling system hoses and connections for leakage, damage and tightness. |
| | Inspect exhaust system for leakage, damage & security. |

## FUEL SYSTEM

| | |
|---|---|
| | Check engine idle speed and idle mixture. Adjust if necessary. |
| | Inspect fuel tank, lines and connections for leakage, damage and tightness. Inspect condition of fuel tank cap gasket. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level & inspect for leaks. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**10,000 km or 6 Month SERVICE VALIDATION**

# 10,000 km or 6 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.4 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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.....

.....

.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Change engine oil. |
| | Change engine oil filter. |
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect exhaust system for leakage, damage and security. |
| | Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. |

## FUEL SYSTEM

| | |
|---|---|
| | Check condition of air cleaner element. Clean or replace as necessary. |
| | Check engine idle speed and idle mixture. Adjust if neccessary. |

. . . Continued

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 20,000 km or 12 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.3 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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.....

.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Check engine valve clearances. Adjust if necessary. |
| | Change engine oil. |
| | Change engine oil filter. |
| | Inspect cooling system hoses and connections for leakage, damage & tightness. |
| | Inspect exhaust system for leakage, damage and security. |

## IGNITION SYSTEM

| | |
|---|---|
| | Replace spark plugs. |
| | Inspect condition of distributor cap and rotor. Clean inside of cap. Check operation of advance mechanism. |
| | Inspect condition and check resistance of all high tension leads. |
| | Check ignition timing. |

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**20,000 km or 12 Month SERVICE VALIDATION**

. . . Continued

## FUEL SYSTEM

| | |
|---|---|
| | Check operation of carburettor choke system. |
| | Check condition of air cleaner element. Clean or replace as necessary. |
| | Check engine idle speed and idle mixture. Adjust if necessary. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Inspect brake drums & shoes for wear and damage. |
| | Check parking brake for correct operation and travel. Inspect cable for damage. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Lubricate right side drive axle shaft nipple. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 30,000 km or 18 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.4 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Change engine oil. |
| | Change engine oil filter. |
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect exhaust system for leakage, damage and security. |
| | Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. |

## FUEL SYSTEM

| | |
|---|---|
| | Check condition of air cleaner element. Clean or replace as necessary. |

Additional Services Performed: .....

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.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**30,000 km or 18 Month SERVICE VALIDATION**

. . . Continued

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Change manual transaxle oil. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 40,000 km or 24 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.0 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Check engine valve clearances. Adjust if necessary. |
| | Change engine oil. |
| | Change engine oil filter. |
| | Inspect cooling system hoses and connections for leakage, damage & tightness. |
| | Change engine coolant. |
| | Inspect exhaust system for leakage, damage and security. |

## IGNITION SYSTEM

| | |
|---|---|
| | Replace spark plugs. |
| | Inspect condition of distributor cap and rotor. Clean inside of cap. Check operation of advance mechanism. |
| | Inspect condition and check resistance of all high tension leads. |
| | Check ignition timing. |

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**40,000 km or 24 Month SERVICE VALIDATION**

. . . Continued

## FUEL SYSTEM

| | |
|---|---|
| | Check operation of carburettor choke system. |
| | Replace air cleaner element if not already replaced in previous 24/40 period. |
| | Check engine idle speed and idle mixture. Adjust if necessary. |
| | Inspect fuel tank, lines and connections for leakage, damage and tightness. Inspect condition of fuel tank cap gasket. |
| | Replace fuel filter. |

## EMISSION CONTROL SYSTEM

| | |
|---|---|
| | Check operation of fuel cut off solenoid valve. |
| | Check operation of thermostatic control on air cleaner. |
| | Check operation of P.C.V. valve. |
| | Check operation of pulse air control system. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Inspect brake drums and shoes for wear and damage. |
| | Change brake fluid. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 50,000 km or 30 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.4 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Change engine oil. |
| | Change engine oil filter. |
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect exhaust system for leakage, damage and security. |
| | Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. |

## FUEL SYSTEM

| | |
|---|---|
| | Check condition of air cleaner element. Clean or replace as necessary. |

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**50,000 km or 30 Month SERVICE VALIDATION**

. . . Continued

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 60,000 km or 36 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.4 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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.....

.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Check engine valve clearances. Adjust if necessary. |
| | Change engine oil. |
| | Change engine oil filter. |
| | Inspect cooling system hoses and connections for leakage, damage & tightness. |
| | Inspect exhaust system for leakage, damage and security. |

## IGNITION SYSTEM

| | |
|---|---|
| | Replace spark plugs. |
| | Inspect condition of distributor cap and rotor. Clean inside of cap. Check operation of advance mechanism. |
| | Inspect condition and check resistance of all high tension leads. |
| | Check ignition timing. |

**60,000 km or 36 Month SERVICE VALIDATION**

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed:

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. . . Continued

## FUEL SYSTEM

| | |
|---|---|
| | Check operation of carburettor choke system. |
| | Check condition of air cleaner element. Clean or replace as necessary. |
| | Check engine idle speed and idle mixture. Adjust if necessary. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Change manual transaxle oil. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Inspect brake drums and shoes for wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 70,000 km or 42 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.4 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Change engine oil. |
| | Change engine oil filter. |
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect exhaust system for leakage, damage and security. |
| | Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. |

## FUEL SYSTEM

| | |
|---|---|
| | Check condition of air cleaner element. Clean or replace as necessary. |

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**70,000 km or 42 Month SERVICE VALIDATION**

. . . Continued

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 80,000 km or 48 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.0 hrs to perform. (Add 0.3 hrs if fitted with automatic transaxle).

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Check engine valve clearances. Adjust if necessary. |
| | Change engine oil. |
| | Change engine oil filter. |
| | Inspect cooling system hoses and connections for leakage, damage & tightness. |
| | Change engine coolant. |
| | Inspect exhaust system for leakage, damage and security. |

## IGNITION SYSTEM

| | |
|---|---|
| | Replace spark plugs. |
| | Inspect condition of distributor cap and rotor. Clean inside of cap. Check operation of advance mechanism. |
| | Inspect condition and check resistance of all high tension leads. |
| | Check ignition timing. |

Additional Services Performed: .....

Odometer ..... Date of Service .....

Signed ..... Servicing Dealer .....

**80,000 km or 48 Month SERVICE VALIDATION**

. . . Continued

## FUEL SYSTEM

| | |
|---|---|
| | Check operation of carburettor choke system. |
| | Replace air cleaner element if not already replaced in previous 24/40 period. |
| | Check engine idle speed and idle mixture. Adjust if necessary. |
| | Inspect fuel tank, lines and connections for leakage, damage and tightness. Inspect condition of fuel tank cap gasket. |
| | Replace fuel filter. |

## EMISSION CONTROL SYSTEM

| | |
|---|---|
| | Check operation of fuel cut off solenoid valve. |
| | Check operation of thermostatic control on air cleaner. |
| | Check operation of P.C.V. valve. |
| | Check operation of pulse air control system. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Replace auto. transaxle fluid hoses (inlet & outlet). |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Inspect brake drums and shoes for wear and damage. |
| | Change brake fluid. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Lubricate right side drive axle shaft nipple. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 90,000 km or 54 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.5 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

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Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Change engine oil. |
| | Change engine oil filter. |
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect exhaust system for leakage, damage and security. |
| | Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. |

## FUEL SYSTEM

| | |
|---|---|
| | Check condition of air cleaner element. Clean or replace as necessary. |

Additional Services Performed: .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**90,000 km or 54 Month SERVICE VALIDATION**

. . . Continued

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Change manual transaxle oil. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 100,000 km or 60 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.3 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

.....

.....

.....

.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Check engine valve clearances. Adjust if necessary. |
| | Change engine oil. |
| | Change engine oil filter. |
| | Inspect cooling system hoses and connections for leakage, damage & tightness. |
| | Inspect exhaust system for leakage, damage and security. |

## IGNITION SYSTEM

| | |
|---|---|
| | Replace spark plugs. |
| | Inspect condition of distributor cap and rotor. Clean inside of cap. Check operation of advance mechanism. |
| | Inspect condition and check resistance of all high tension leads. |
| | Check ignition timing. |

**100,000 km or 60 Month SERVICE VALIDATION**

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed:

.....

.....

.....

.....

. . . Continued

## FUEL SYSTEM

| | |
|---|---|
| | Check operation of carburettor choke system. |
| | Check condition of air cleaner element. Clean or replace as necessary. |
| | Check engine idle speed and idle mixture. Adjust if necessary. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Inspect brake drums and shoes for wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 110,000 km or 66 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.4 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

.....

.....

.....

.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Change engine oil. |
| | Change engine oil filter. |
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Inspect exhaust system for leakage, damage and security. |
| | Where dealer A/C accessory fitted – check A/C refrigerant at sight glass, clean condenser, check A/C hoses for leaks. |

## FUEL SYSTEM

| | |
|---|---|
| | Check condition of air cleaner element. Clean or replace as necessary. |

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**110,000 km or 66 Month SERVICE VALIDATION**

. . . Continued

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Check transaxle oil level and inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness wear and damage. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

# 120,000 km or 72 Months Service Coupon

GMH QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.1 hrs to perform.

There will also be a charge for all lubricants and filters, parts used as a result of checks and additional services performed as requested.

Additional Services Requested:

.....

.....

.....

.....

Signature ..... Date .....

## ENGINE

| | |
|---|---|
| | Check condition of water pump belt. Retension or replace as necessary. |
| | Check engine valve clearances. Adjust if necessary. |
| | Change engine oil. |
| | Change engine oil filter. |
| | Inspect cooling system hoses and connections for leakage, damage & tightness. |
| | Change engine coolant. |
| | Inspect exhaust system for leakage, damage and security. |

## IGNITION SYSTEM

| | |
|---|---|
| | Replace spark plugs. |
| | Inspect condition of distributor cap and rotor. Clean inside of cap. Check operation of advance mechanism. |
| | Inspect condition and check resistance of all high tension leads. |
| | Check ignition timing. |

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

**120,000 km or 72 Month SERVICE VALIDATION**

. . . Continued

## FUEL SYSTEM

| | |
|---|---|
| | Check operation of carburettor choke system. |
| | Replace air cleaner element if not already replaced in previous 24/40 period. |
| | Check engine idle speed and idle mixture. Adjust if necessary. |
| | Inspect fuel tank, lines and connections for leakage, damage and tightness. Inspect condition of fuel tank cap gasket. |
| | Replace fuel filter. |

## EMISSION CONTROL SYSTEM

| | |
|---|---|
| | Check operation of fuel cut off solenoid valve. |
| | Check operation of thermostatic control on air cleaner. |
| | Check operation of P.C.V. valve. |
| | Check operation of pulse air control system. |

## CHASSIS AND BODY

| | |
|---|---|
| | Check clutch pedal freeplay. Adjust if necessary. |
| | Change manual transaxle oil. |
| | Check transaxle oil level & inspect for leaks. |
| | Lubricate gearshift control lever seat and shaft bushings. |
| | Inspect brake discs and pads for thickness, wear and damage. |
| | Inspect brake drums and shoes for wear and damage. |
| | Change brake fluid. |
| | Check parking brake for correct operation and travel. Adjust as necessary. |
| | Inspect all brake hoses, pipes and connections for leakage, damage and security. |
| | Inspect tyres and wheels for wear or damage. Check inflation pressures. Torque wheel nuts. |
| | Inspect drive shaft boots for leaks, damage and attachment. |
| | Lubricate right side drive axle shaft nipple. |
| | Check front and rear suspension for signs of leakage, damaged, loose or missing parts and signs of wear. Check tightness of all fasteners. |
| | Check steering system for signs of leakage, damaged, loose or missing parts and signs of wear. |
| | Lubricate door hinge assemblies. |
| | Check operation of all lights. |

## ROAD TEST

| | |
|---|---|
| | Check braking performance, steering operation, engine response and driveability, clutch and gearshift operation. |
| | Check that body, wheels and power-train are free from abnormal noise and vibration. |
| | Check all instruments and warning lights are functioning properly. |
| | Check seat belt emergency locking mechanism is functioning properly. |

*To ensure continued interest in your vehicle, Holden's Motor Company requests that owners who change their name or address and subsequent owners who purchase the vehicle fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.*

1

## Notice of Name/Address Ownership Change

NAME/ADDRESS CHANGE ☐ SUBSEQUENT OWNER ☐
PLEASE TICK ☑ APPROPRIATE SQUARE

Owner's Name Mr. Mrs. ..... Miss

Address .....

Town .....

State ..... Post Code .....

Registration No. .....

Vehicle Identification Number (V.I.N.) .....

(Refer Specifications Section of this Manual for location of V.I.N.)

1

## Notice of Name/Address Ownership Change

NAME/ADDRESS CHANGE ☐ SUBSEQUENT OWNER ☐
PLEASE TICK ☑ APPROPRIATE SQUARE

Owner's Name Mr. Mrs. ..... Miss

Address .....

Town .....

State ..... Post Code .....

Registration No. .....

Vehicle Identification Number (V.I.N.) .....

(Refer Specifications Section of this Manual for location of V.I.N.)

*Place in an envelope and mail to:*

The Manager — Warranty Administration,
Service Department,
Holden's Motor Company
Box 548D, G.P.O.,
Melbourne,
Victoria, 3001

*Place in an envelope and mail to:*

The Manager — Warranty Administration,
Service Department,
Holden's Motor Company
Box 548D, G.P.O.,
Melbourne,
Victoria, 3001

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Address .....

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Town .....

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Service Department,
Holden's Motor Company
Box 548D, G.P.O.,
Melbourne,
Victoria, 3001

CHAPTER 8

# Specifications & Emissions

page 116 — Engine Specifications

116 — Fuel Tank Specifications

117 — Transaxle Specifications

117 — Final Drive Ratio

117 — Front Wheel Bearing Specifications

117 — Brake Fluid Specifications

117 — Rear Wheel Bearing Specification

117 — Lubrication of Various Locks, Hinges, Catches, Linkages and Pivots

118 — Bulb Specification

118 — Fuse Panel

119 — Tyre Specifications

119 — Vehicle Dimensions (height, length, curb weight, etc.)

120 — Identification Plates and Numbers

122 — Emission Control System

**CHAPTER 8**
**SPECIFICATIONS & EMISSIONS**

# Engine Data

| 1.3 litre, 4 cylinder, high compression with overhead camshaft | | |
|---|---|---|
| Firing Order | 1, 3, 4, 2 | |
| Ignition Timing | Manual | 6° BTDC at 700 ± 50 rpm |
| | Automatic | 6° BTDC at 850 ± 50 rpm |
| Spark Plug — Type<br>— Gap | NGK BP6ES or NIPPON DENSO W16EX-U<br>0.7 – 0.8 mm | |
| Oil — Specification<br><br><br><br>— Capacity | SF grade engine oil 20W/40<br>If operating in ambient temperatures over 35°, use of SF grade engine oil 20W/50 is recommended. For prolonged use in snow areas, the use of 15W/40 (SF) or 15 W/30 is recommended.<br>4.0 litres (including filter) | |
| Coolant — Specification<br><br>— Capacity | 2/3 water to 1/3 by volume Holden's part No. M39288 or<br>2/3 water to 1/3 volume Holden's part No. M39338<br>4.7 litres | |
| Radiator Cap Pressure Rating | 90 kPa | |
| Piston Displacement | 1324 cc | |
| Compression Ratio | 9.5 : 1 | |
| Stroke | 77 mm | |
| Bore Diameter | 74 mm | |
| Torque | 103.5 Nm @ 3700 rpm | |
| Power | 49.5 Kw @ 5300 rpm | |
| Taxable Horsepower | 13.58 | |
| Idle Mixture Settings | Idle mixture and basic throttle settings have been preset and sealed. Removal of mixture screw caps and alterations to other than specified idle CO settings may violate State law | |

| Fuel | |
|---|---|
| Tank Capacity | 33 litres |
| Fuel Rating | Unleaded fuel of at least 91 octane rating |

**NOTE:** Non-detergent and other low quality oils are specifically *not* recommended. The use of break-in oils, tune-up compounds, friction-reducing compounds and other supplemental additives are *not* recommended; their use will not only increase operating costs, but be detrimental to the operation of your car.

CHAPTER 8
SPECIFICATIONS & EMISSIONS

# General Specifications

| | | Manual | Automatic |
|---|---|---|---|
| Transaxle gear ratios | 1st | 3.416 : 1 | 2.810 : 1 |
| | 2nd | 1.894 : 1 | 1.549 : 1 |
| | 3rd | 1.280 : 1 | 1.000 : 1 |
| | 4th | 0.914 : 1 | — |
| | 5th | 0.757 : 1 | — |
| | rev | 2.916 : 1 | 2.296 : 1 |
| Transaxle oil capacity | | 2.3 litres | 4.5 litres |
| Transaxle oil specification | | API GL-4, SAE 80W gear oil | Dexron *11D Automatic Transmission Fluid |
| Final drive ratio | | 3.523 : 1 | 3.684 : 1 |

| | |
|---|---|
| Front wheel bearings | Grease meeting Holden's HN 1227 specification (high melting point) |
| Brake fluid | DOT3 or SAE J1703 brake fluid |
| Clutch linkage pivot points | Grease meeting Holden's HN1327 specification |
| Gear shift control lever and shaft | |
| Rear wheel bearings | |
| Door hinges | Engine oil |
| Bonnet latch assembly | |
| Key lock cylinders | Powdered graphite – apply through key aperture |

*Dexron 11 is a registered trademark of General Motors Corporation.

# Bulbs

| | |
|---|---|
| Headlight | 60/55 W |
| Turn Signal Light | 21 W |
| Parking Light | 5 W |
| Tail/Brake Light | 5/21 W |
| Side Turn Signal Light | 5 W |
| Licence Plate Light | 7.5 W |
| Reversing Light | 21 W |
| Interior Dome Light | 5 W |
| Meter Pilot Lights | 3.4 W |

Refer page 75 – 77
when replacing
bulbs

# Fuse Panel

The fuse panel is on the instrument panel, on the lower right side of the steering column — refer page 5 for exact location.

To remove the cover, pull away the lower edge by hand.

| | | | | | | |
|---|---|---|---|---|---|---|
| 10A<br>HEAD<br>R | 10A<br>HEAD<br>L | 10A<br>STOP | 10A<br>DOME<br>HORN | 5A<br>LICENSE | 5A<br>TAIL<br>R | 5A<br>TAIL<br>L |
| 20A<br>IG. COIL<br>METER | 20A<br>HEATER | 15A<br>REAR<br>DEF | 15A<br>WIPER<br>WASHER | 10A<br>TURN<br>BACK | 10A<br>HAZARD | 15A<br>RADIO<br>CIGAR |

CHAPTER 8
SPECIFICATIONS & EMISSIONS

# Tyres & Dimensions

## TYRE SPECIFICATIONS TABLE

**(NOTE:** Always refer to the placard on the right, door lock pillar)

| WHEEL | TYRE SIZE | Recommended cold inflation pressure kPa (P.S.I.) | |
|---|---|---|---|
| | | FRONT | REAR |
| 4.0B x 12 Steel | 145 SR 12 | 220 (32) | 220 (32) |

## WHEEL NUT TORQUES

Recommended Wheel Nut Torque is 40-70 Nm (30-50 ft. lbs.)

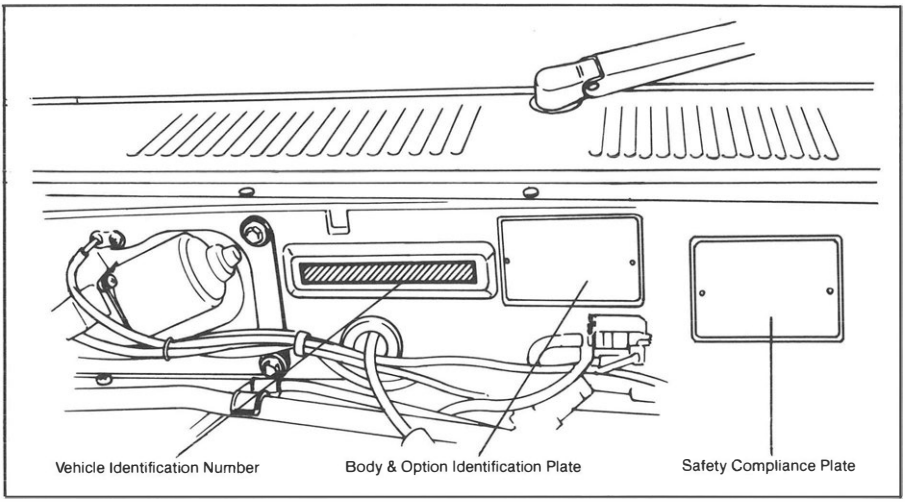
### Dimensions

| | | |
|---|---|---|
| Length | | 3770 mm |
| Width | | 1545 mm |
| Height | | 1350 mm |
| Wheelbase | | 2345 mm |
| Ground clearance | | 180 mm |
| Turning circle | | 9.4 m |
| Track | Front | 1335 mm |
| | Rear | 1300 mm |

### Weight

| | | |
|---|---|---|
| Curb weight | Manual | 730 kg |
| | Auto. | 760 kg |
| Max. allowable loaded weight | Front | 600 kg |
| | Rear | 610 kg |
| | Total | 1210 kg |

# Identification Plates




## Safety Compliance Plate

Shown on the plate are the vehicle Make, Model, Name and Style, Month and Year of Manufacture, Vehicle Serial Number, approved seating capacity and the Australian Design Rules with which the vehicle complies.

HOLDEN 8MG68 HATCHBACK
8G68AFK100001B
GVM: Kg. SEATING CAP:5 10/85
WAS MANUFACTURED BY SUZUKI MOTOR CO. LTD. TO COMPLY WITH ADR. NOS. 1,2,3A,4D,5B,6,7,8,10B,11,12,14,15,16,18A, 20,21,22A,23B,24A,25A,28A,29,31,34A,37
THIS PLATE IS AFFIXED WITH THE APPROVAL OF THE AUSTRALIAN MOTOR VEHICLE CERTIFICATION BOARD

## Body and Option Identification Plate

The plate shows body style, body serial number, paint and trim colour combination, paint number, engine transmissions, axle ratio options and built date.

The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

SUZUKI MOTOR CO., LTD. JAPAN
TYPE ①
CHASSIS NO. ②
ENGINE ③ cc
COLOR ④
BUILT
ENGINE NO.
鈴木自動車工業株式会社

CHAPTER 8
SPECIFICATIONS &
EMISSIONS

# Identification Plates

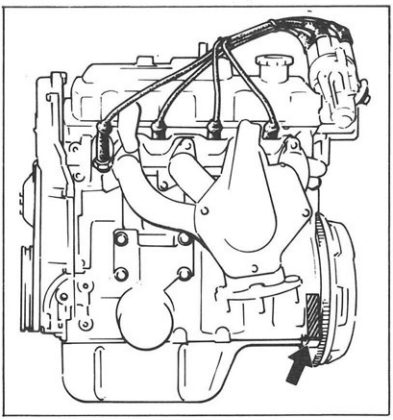
## Vehicle Identification Number (V.I.N.)

**8 G68 A F KI 00025 L**

- 8 — Holden's Designation
- G68 — Model Code
- A — Engine Code
- F — Model Year (F = 1986, G = 1987)
- KI — Plant of Manufacture
- 00025 — Sequential Production Serial Number
- L — Series

## Engine Identification Number

Every engine has its own individual identification number stamped into a flat surface on the engine block.



CHAPTER 8
SPECIFICATIONS &
EMISSIONS

# Emission Control

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen ($NO_x$) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, produce photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

1. **Evaporative Emission Control System**
   This system is designed to prevent the escape of fuel vapours from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and $NO_x$ emissions in the exhaust gas. The exhaust Emission Control System is comprised of components such as the carburettor, spark advance control, cooling system thermostat, catalytic converter, pulse air control system, etc.

For detailed information on the operation, servicing and repair procedures for these systems, refer to the appropriate service manual for your vehicle.

## Owner Responsibility

Your vehicle's emission control systems have been designed to meet the requirements of Australian Design Rules and State Regulations.

To ensure that these components achieve their purpose of controlling the emission of pollutants to the atmosphere, the engine or exhaust system of your vehicle must **not** be modified in any way. Any departure from the manufacturer's design specifications may increase the emissions or otherwise defeat the intent of the regulations.

**IMPORTANT:** ANY PERSON WHO REMOVES, MODIFIES OR OTHERWISE RENDERS INEFFECTIVE ANY EMISSION CONTROL COMPONENTS FITTED TO A VEHICLE WILL BE CONTRAVENING THE RELEVANT REGULATIONS AND BE GUILTY OF AN OFFENCE UNDER THE REGULATIONS. ANY PERSON WHO OWNS AND/OR OPERATES SUCH A VEHICLE COULD ALSO BE GUILTY OF AN OFFENCE UNDER THE REGULATIONS.

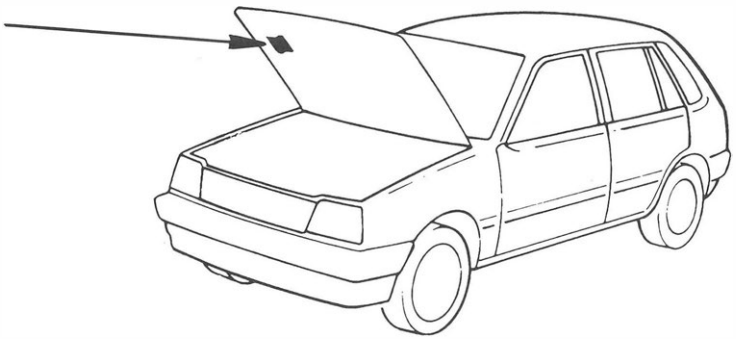
## Maintenance Requirements

To ensure continuing compliance with the regulations it will be necessary for you to maintain your vehicle's emission control system in accordance with the instructions given in the Holden's Maintenance Plan (refer Chapter 7) and the relevant Service Manuals.

It is recommended that the necessary servicing be performed by an authorised GM-H Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

CHAPTER 8
SPECIFICATIONS &
EMISSIONS

# Emission Control



## MANUAL TRANSAXLE

VEHICLE EMISSION CONTROL INFORMATION

SUZUKI

ENGINE TYPE: G13A ENGINE DISPLACEMENT: 1324cc
EXHAUST EMISSION CONTROL: Engine modification
ENGINE TUNE UP SPECIFICATIONS: (GEAR: Neutral)

| | |
|---|---|
| Spark plug gap: | 0.7~0.8mm |
| Dwell angle: | N.A. |
| Ignition timing (at idle): | 6° BTDC |
| Engine idle speed: | 700rpm |
| Idle CO% (hot): | 1.5% |
| Valve clearance (hot): | Inlet 0.25mm Exhaust 0.28mm |

IDLE SPEED & MIXTURE SETTING PROCEDURES:

- Check and set ignition timing.
- Warm up engine.
- Adjust idle adjusting screw so that the specified idle CO concentration is obtained.
- Adjust throttle stop screw so that the specified idle speed is obtained.

FOR DETAILED MAINTENANCE INFORMATION, PLEASE REFER TO YOUR DEALERS.

SUZUKI MOTOR CO., LTD. 8265

## AUTOMATIC TRANSAXLE

VEHICLE EMISSION CONTROL INFORMATION

SUZUKI

ENGINE TYPE: G13A ENGINE DISPLACEMENT: 1324cc
EXHAUST EMISSION CONTROL: Engine modification
ENGINE TUNE UP SPECIFICATIONS: (GEAR: Neutral)

| | |
|---|---|
| Spark plug gap: | 0.7~0.8mm |
| Dwell angle: | N.A. |
| Ignition timing (at idle): | 6° BTDC |
| Engine idle speed: | 850rpm |
| Idle CO% (hot): | 1.5% |
| Valve clearance (hot): | Inlet 0.25mm Exhaust 0.28mm |

IDLE SPEED & MIXTURE SETTING PROCEDURES:

- Check and set ignition timing.
- Warm up engine.
- Adjust idle adjusting screw so that the specified idle CO concentration is obtained.
- Adjust throttle stop screw so that the specified idle speed is obtained.

FOR DETAILED MAINTENANCE INFORMATION, PLEASE REFER TO YOUR DEALERS.

SUZUKI MOTOR CO., LTD. 8663

CHAPTER 9

# Appearance Care

page 126 — Cleaning Upholstery
127 — Cleaning Carpet
127 — Cleaning Seat Belts
127 — Cleaning Interior Glass
128 — Cleaning Exterior
129 — Cleaning Tyres
131 — List of Appearance Care and maintenance materials

CHAPTER 9
APPEARANCE CARE

# Interior Cleaning

**CAUTION: Many cleaners may be toxic or flammable, or may cause damage to the interior. When cleaning the interior, do not use volatile cleaning solvents such as: acetone, lacquer thinners, enamel reducers, nail polish removers; or such cleaning materials as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naptha for any cleaning purpose.**

**Be sure the vehicle is well ventilated while using any cleaning agents. Follow the manufacturer's recommendations when using such products.**

## Cleaning Fabric-Type Trim

Dust and dirt which accumulates on the surface of fabric-type trim should be removed regularly with a vacuum cleaner or soft brush.

It is essential that spots or stains be removed from trim fabric as soon as possible after they have been made. If allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult if not impossible.

**REMOVAL OF NON-GREASY STAINS** — Includes tomato sauce, coffee (black), egg, fruit, fruit juice, milk, soft drinks, wine, blood, etc.

- Carefully scrape off excess stain, then sponge fabric with cool water.
- If a stain remains, use a mild soap solution or cleaner such as AC Delco Fabric and Vinyl Cleaner.
- **Use suds only on a clean sponge or soft bristle brush. Do not saturate the fabric or rub it harshly with a brush. Immediately after cleaning, wipe off excess suds with a slightly damp absorbent cloth.**
- **Immediately after wiping, force-dry the fabric with an air hose or hair dryer.** (Use caution with hair dryer to help prevent fabric damage.)

**REMOVAL OF GREASE, OIL AND FAT STAINS** — Includes grease, oil, butter, margarine, shoe polish, coffee with cream, chewing gum, cosmetic creams, vegetable oils, wax crayon, tar and asphalts.

- Carefully scrape off excess stain, then use a suitable Spot Cleaner (Solvent Type). USE VERY LITTLE CLEANER, light pressure and clean cloths (preferably cheesecloth). Cleaning should start at the outside of the stain, "FEATHERING" toward the centre. Keep changing to a clean section of the cloth.
- When you clean a stain from fabric, immediately dry the area with an air hose or hair dryer to help prevent a cleaning ring. (Use caution with hair dryer to help prevent fabric damage.)
- If a ring forms, immediately repeat the cleaning operation over a slightly larger area with emphasis on "FEATHERING" towards its centre.
- Shoe polish, wax crayons, tar and asphalts will stain if left on trim; they should be removed as soon as possible. Use caution as the cleaner will dissolve them and may cause them to "bleed".

After cleaning, or better still when the vehicle is new, apply AC Delco Fabric Protector to help guard the fabric from future soiling.

CHAPTER 9
APPEARANCE
CARE

# Interior Cleaning

## Cleaning Vinyl Trim

Vinyl trim material should be regularly wiped over with a damp cloth to remove surface dust and dirt.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended.

1. Using luke warm water and soap, or AC Delco Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to advantage to remove stubborn stains or dirt embedded in the grain of the material.
2. Wipe off suds with a damp clean cloth.
3. Wipe dry with a soft cloth.

## Cleaning Carpet

Thoroughly brush or vacuum the carpet to remove loose dirt etc. If the carpet is extremely soiled it can be cleaned using AC Delco Velour Fabric and Vinyl Cleaner. Clean approximately one square foot at a time. After cleaning the carpet, use an air hose or hair dryer to dry the carpet.

## Cleaning Seat Belts

Cleaning of the seat belts can be carried out by using a mild non-abrasive soap and luke warm water. After washing be sure to thoroughly sponge the washing solution out of the belts. Do not allow the belts to retract until they are thoroughly dry. Do not bleach or dye belts since this may severely weaken them.

## Glass Surfaces

Glass surfaces should be cleaned on a regular basis. Use of AC Delco Glass Cleaner or a commercial household glass cleaner will remove normal tobacco smoke and dust films sometimes caused by ingredients used in vinyls and interior plastics.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches. If abrasive cleaners are used on the inside of the rear window the electric defroster element may be damaged. Avoid placing decals on the inside rear window, since they may have to be scraped off later.

CHAPTER 9
APPEARANCE
CARE

# Exterior Cleaning

## Washing

If the vehicle is in continuous use, it should be washed regularly. Washing not only removes dirt and general road grime that settles on the vehicle but also dilutes those airborne acids resulting from industrial and natural fallout. Regular washing of vehicles located in coastal areas, to remove salt deposits, is essential if corrosion is to be avoided.

**NORMAL WASHING PROCEDURE:**

**Before washing, ensure that the vehicle is cool. DO NOT wash paintwork while the car is exposed to strong, hot, direct sunlight.**

(a) With cold running water and starting from the roof, hose the vehicle all over from top to bottom. Do not sponge or cloth at this stage. This will remove grit and other loosely adhering substances which could otherwise scratch the paint in the operations to follow.

(b) To a normal household bucket filled with lukewarm water, add NO MORE than two capfuls (approx. 15 ml) of a liquid detergent.

(c) Soak a clean sponge in the bucket then apply liberally by wiping over the roof area of the vehicle and all the exterior glass. Do not allow to dry out. Rinse off immediately with cold running water from the hose.

(d) Repeat this process all over the remainder of the vehicle leaving the wheels until last. Do only a section at a time and do not forget to rinse off the "soapy" section before it dries.

(e) After a final cold water rinse all over, the vehicle should be dried with a good quality chamois, paying particular attention to all glass and chromed trim.

## Removing Harmful Deposits

It is most important that any deposited material, whether natural or industrial, be removed from the paintwork at the earliest opportunity. **Prolonged contact may lead to permanent marring of the paintwork.**

**BIRD & INSECT EXCRETION, TREE SAP & OTHER NATURAL DEPOSITS** — For this type of stain removal FIRST use a warm water detergent mixture as for washing, and rinse off with clean, running water. Repeat if necessary and dry. Many "Natural" types of fall out are water soluble and will be removed with this simple method.

**GREASE, OIL, TAR & OTHER BITUMINOUS TYPE DEPOSITS** — Remove with a little kerosene or mineral turpentine and then thoroughly hose and wash treated area immediately.

**NOTICE: Do not apply kerosene or mineral turpentine to hot paintwork. Always allow paintwork to cool down first. Also, do not allow petrol to contact paintwork. Should this occur, wash off petrol immediately with clean water.**

Any staining or spotting which remains after removing the deposits may possibly be removed by polishing.

CHAPTER 9

APPEARANCE CARE

# Exterior Cleaning

## Cleaning Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanics' hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored by using AC Delco Tyre Black.

## Windscreen Cleaning

It is important, at all times, that the windshield surface be maintained in a clean condition so that the wiper blades may be as effective as possible in wiping clean the surface.

Abrasive materials must never be used to clean glass as they can cause scratches. A scratched windshield will cause difficulty in achieving proper vision, particularly in night driving. After the windshield has been cleaned with a wet sponge etc., it should be wiped over with a soft lint free cloth or chamois.

It is recommended that AC Delco "Optikleen" be added to the washer reservoir at the concentration specified on the package. (NOTE: Excessive concentration of Cleaner may affect paint finish.) This solution is more effective than plain water in cleaning the windscreen and also reduces any tendency for the wiper blades to shudder.

## Wiper Blade Maintenance

Much of the oil and road scum thrown up onto the windshield glass, causing smearing when the wiper is switched on, transfers onto the wiper blade. Many owners, whilst they methodically clean the windshield glass, omit to clean the wiper blades and consequently smearing of the glass re-appears immediately the wiper blades are set in motion.

The blades can be cleaned by simply lifting them off the windshield glass and then washing the wiping edge carefully with warm water and a suitable detergent.

**NOTICE:**

- **Never operate the wiper blades by hand as this may damage the wiper drive mechanism.**
- **Old or poorly maintained wiper blades can cause windscreen scratching and/or a smeary wipe. Therefore, the rubber element should be checked regularly and be replaced once or twice each year.**
- **If your vehicle is to be stored for long periods the blades should be lifted clear of the windscreen by placing the arms in the "lock back" position. Failure to do this can result in rubber element becoming permanently distorted.**

**CAUTION: Care should be used when moving the vehicle after washing, in case water has affected the brakes. Refer to caution in Chapter 3 — "Starting & Driving" for procedure to follow if water gets into your brakes.**

# Exterior Cleaning

## Underbody

When a vehicle has been used under conditions exposing it to excessive mud and/or corrosive materials resulting from boat launching, driving along beaches or on tracks through fertilized paddocks, etc. — the underbody and wheels must be thoroughly flushed with fresh water to remove any deposited mud or corrosive material. Failure to perform this underbody cleaning promptly can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets, parking brake cables, etc.

## Repairing Damaged Paintwork

Regular inspection of the vehicle should be made for scratch marks, cracks or damaged areas, all of which would develop rust and thus affect paint finish. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect.

## Care of Paintwork

The acrylic lacquer finish on your vehicle will maintain its new appearance for a long time provided it is cleaned and cared for regularly according to the recommendations given in this section.

Although the paintwork of the vehicle will provide a high degree of protection against the weather, normal wear and deterioration will take place when it is exposed to the elements for prolonged periods of time. **You should therefore protect or garage your vehicle whenever possible.**

## Polishing

Regular polishing with a mild polishing cream, such as the AC Delco polishes available from your GM-H Dealer, will enhance the appearance of the paintwork. Polishing also assists in the removal of foreign deposits not normally removed from paint finish by washing. Over a period of time such deposits may build up on the paint surface to the detriment of its overall appearance.

The use of polishes containing silicon on the paint finish before it has properly cured (before the paint solvents have completely evaporated — approximately three months from manufacture) is **not** recommended.

If silicon type polishes are used after this paint curing period, apply polish sparingly to avoid build up of polish layers on the paint film. These layers of polish detract from the original sheen of the paint finish.

**NOTICE: Do not attempt to apply any polish to paint finish without first thoroughly washing the vehicle.**

CHAPTER 9
APPEARANCE CARE

# Care & Maintenance Materials

| PART NO. | SIZE | DESCRIPTION | USAGE |
|---|---|---|---|
| M37432 | 390 x 370mm | Synthetic Chamois | Absorbs water and cleans paint, glass and chrome surfaces. |
| M37226 ]* | 375ml | Wash & Wax | Exterior washing. |
| M37221 ]* | 375ml | Liquid Silicon Polish | Exterior cleaner and polish. |
| M39219 | 1 litre | Liquid Polish | Exterior cleaner and polish. Recommended for use for the first 3-6 months after vehicle purchase. |
| M38695 | 250ml | Glass Cleaner | Cleans all glass surfaces. |
| M37933 | 500ml | Optikleen | Windshield washer solvent. |
| M38693 | 400g | Fabric Protector | Repels oil, grease and water-borne stains on most fabrics. |
| M38424 | 350g | Velour Fabric and Vinyl Cleaner | Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets. |
| M38696 | 250ml | Vinyl and Rubber Conditioner | Preserves and protects vinyl, leather and rubber. |
| M37429 | 304 x 250mm | Demister Cloth | Delays formation of mist on treated glass surfaces. |
| M39168 | 100ml | Car Freshener | Deodorant — removes tobacco smoke and other odours. |
| M39169 | 250ml | Spot Cleaner | Multi purpose spot and stain remover for trim and carpets. |
| M38694 | 250ml | Tyre Black | Low-sheen natural rubber finish for tyres. |
| M37223 | 400g | Degreaser | Removes oil and grease from motors. |
| M37225 | 175g | AC-4 | — Dispenses moisture on wet motors and electrical components.<br>— Penetrates and loosens rusted or seized parts.<br>— Lubricates and protects against corrosion.<br>— Inhibits corrosion on battery terminals. |

* Do not use on new paintwork less than three months old.

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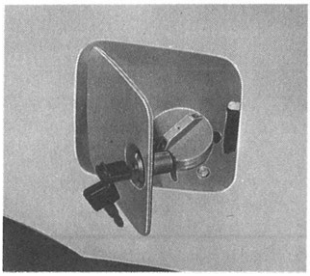
# Fuel

**CAUTION: Petrol is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refuelling. If petrol fumes are noticed while driving, the cause should be determined and corrected without delay.**



The fuel filler is on the left side of the car and has both a lockable, hinged lid and a screw-on cap. After opening the lid, remove the cap by turning anti-clockwise. When replacing cap, turn until a "clicking" sound is heard — which indicates the cap is secure.

To reduce the exhaust pollutants in the atmosphere, your Barina has been designed to operate on a good clean UNLEADED FUEL of at least 91 octane rating (Research Octane Number), as indicated by the label on the fuel cap.

The use of any other fuel will seriously damage the catalytic converter and may void your Warranty.

To ensure that the correct fuel is used, your Barina has been fitted with a fuel filler nozzle restrictor. This allows the thinner, unleaded fuel filler nozzle to open the hinged flap, so that fuel may be added to the fuel tank. The leaded, fuel filler nozzle is wider and therefore cannot open the flap.

Overfilling of the fuel tank can affect the evaporative Emission Control System.

To avoid this, the following recommendations are made:

1. Fuel tanks should always be filled at the intermediate or fast fill rate. After initial shut-off (or vent blow back) no further fuel should be added. This retains the tank's ability to accommodate fuel expansion.

2. It is permissible to "trickle fill" fuel tanks where vehicles are to be driven for a distance of at least 50 km shortly after the tank is filled.

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